

agngcggcgc accgagacgg acgagaaaga gaccaccccc gccgcaccaa accagaagaa 240  
 cgagatggcg gtgcaaccaa gccacgatcg agtggagacg aagcaccag agggagccccg 300  
 ggagacccgc gaaggcaaca cgaggcgcca ataacagagc acgagccgaa acacggctac 360  
 gccacgggag caccagagg aaccacgcg aacgcgacag cgcacggagg aacggatacc 420  
 acccagcca acaccagaac atcgagagga gccagcaca gagagcgagg caacgnncgc 480  
 cgaggaagac cccagagagg atctcgagga gcaaccaccg gagccagccg cggaacaccc 540  
 tgaccacaca gaagaagacg agcg 564

<210> 28786  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28786

tggatattgg atagcacgtg gaatagccgc cctatctgtt cntttggaga aaaaagctag 60  
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 ggtgaacagg caccttcttc caaatatcag gaatgctgag gtatgccctc tagttacttt 180  
 gcactgaatt aaaggaaact cttttctgat ctgtttttct agcatcctcc aaaaataatt 240  
 ttctagaact ctagtgacaa ccataatttg ctatgaaatg aaagtcagct tttattgttg 300  
 atacctcttt tgatgtttnt aagttccaat atctatccgt gcagttagag aatgtgagaa 360  
 ttttcttaaa agggaattaa gaacagtatc tctcaccatg tctcaaagg cagtatgctt 420  
 gtcttttg 427

<210> 28787  
 <211> 284  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28787

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 tctccatgga ggaaaatcac ccattaagga cctcattgct gccaaagatc cagcctccat 120  
 agaagcccca cggggcgctt acatcactgg ctctgaggat cgacgatgga ccaacacagc 180

gactatcatg gaaagcgggtt ccattggtaa aggtgacctg cggacgcaca tctggataat 240  
atggcacgta ggaattaaag agtcctatgc cagccgccta tcca 284

<210> 28788  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28788

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taagagtagt gtcccaactgg taaaactaac tttccaaatg tttgccttcg caggaaatgg 120  
ccccgaggaa gcttgcctca aagaggtcca ggaaggacaa ggcagccgaa ggaactagtt 180  
ccgctccgga gtatgatagt caccgcttta ggagtgtgt acaccagcag cgcttcgagg 240  
ccatcaaggg atggtcgttt ctccgggagc gacgcgtcca gctcagggac gacgagtata 300  
ctgatttcca ggaggaaata gggcgccggc ggtgggcac actggttact cccatggcca 360  
agtttgatcc agaaatagtc cttgagttnt atgccaatgc tttgccaaca g 411

<210> 28789  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28789

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accattaaag gacctcattg aagctcaaag atccagctc catagaagcc ccacaagcaa 180  
gcttccatca ctgcctttga g gatcgagga tagacgaaca aagcacctaa gaaggaagga 240  
ggttccattg gtcaaggtga cctgnggagg tacatcagga gaagatgcca cgtgggaatt 300  
agagagtcag atgcaagccg cctatccatc cttgtttgag tcaggtaaatt ttcggggacg 360  
aaatttctaa aagggttagga gagttgtaac accctgagat attataagtt atatatcgat 420  
gtttaa 426

<210> 28790  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 28790

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 ccatcttctc aactaaattt ctggcttcag caggggccat gtctccaagg gctccaccac 120  
 tagcagcatc gatcatactt ctctccatgt tactgagacc ttcataaaaa tattggagaa 180  
 gaagctgctc agaaatctgg tagtgagggc aactggcaca caatatcttg aatcttacct 240  
 aataactcata catgctttct ccaccaagat gcctgatgcc tgaaatgact attctgatgg 300  
 cagcggctct ggaagcaggg aaaagttttt ctaagaatac tctcttgagg tcatcccagc 360  
 tcgtgatg 368

<210> 28791  
 <211> 572  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28791

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 ctgaccntc caacaacaca acccgagaa aaatttgaga cttgacgacc tcgcaacacc 120  
 gngacaactn aaganacacc gcctagagca ggcaagaaga caacaaccag cggaatata 180  
 ctcttcataa cggagccacc accaatgctg aggccgtcaa aaaaacaccc tccgaacata 240  
 cgagcccttc atgaccatga agggctaaac aacccttggg tgaggagcgt accactaaac 300  
 tctcgtgatg gaaaaacccg aacaatctat acaatgttag agctaggacc accgcgcctt 360  
 ccggtgtgta tatatatgta cttgagggtga tcatccacct atatggcatg gtagggctta 420  
 agcactgcca aagaggcgaa atccttagaa cctgaaagag catccaaaat gatccagtgc 480  
 taagggaat gtgcgtact gtgacacgct aagcgggcag gagctcgcta atcgagagta 540  
 cagaccaatc ccagccgcag aacacgctaa cn 572

<210> 28792  
 <211> 438  
 <212> DNA

<213> Glycine max

<400> 28792

gcttgaagag agacaacaat ggtggtgaag aaaacgaaca agtaacatgt ttgaagttat 60  
agagaggcgc gctggaagtt tctggagaaa gagagagaag atttggcttt tagaatggtt 120  
tttcttttct ttctcatttt ctttctaaaa gcaaatccac atgtcatttg ttaattggag 180  
cacaaagggt ccacctttac ctttgacttg accgcgtact caaccctcac acaagaagaa 240  
aattggacct tttcggacgc tgaaatccta cctcggattg cgtgttgcct ctccggttgc 300  
atttgttcgc gtttctctac acccgtccag gccattttc agaggtaggc agtatataca 360  
tatgtatatg tatatagata tatatatata tacatactct catctatata tatatgtcaa 420  
gacgctcaca atgagacc 438

<210> 28793

<211> 271

<212> DNA

<213> Glycine max

<400> 28793

tgctcaagga tcgtagtgcg attgggcgcc attgagtgtg ttatgctcaa atctgggccc 60  
ttctgggaga ggttggtgct tgtctggctt gtgcctcttg ttcgacttgt gtgaatcggt 120  
cttggtgctt ccttctcgct tgtcgcgctt ctgtctggct tggctgactt tgatcttgaa 180  
tctagacatt tcctctatct agatgaaccc tttgcccggt catggcattc cgctctgctc 240  
ctatgggttt tttgcccaac tggcttcaac c 271

<210> 28794

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28794

taccocatatt gatgagttat tnttttaagt ctacattctt taactgtttg tcaaaanttg 60  
atgcaatgtg gcgaatgcaa tacacataag atacatccgg tccaatccac ccaactcggt 120  
ttgattgcaa agctgctagt aaagtgggtc acctgtctaa tataatacat aaatttggtt 180  
aaagtgtaac atatctcttc aaataatgca agaaccacat ccaaacttct ttgatctcgc 240



tctcaacaat tgcaaaagaa agtggaaaat tatttctact accatcttgt ctaatggcag 300  
tcaacaaagt accataatat tttccagtta aaaatgtccc atctgcttgc tcaattggct 360  
tgcaatattg aaagccttca atgcatagct tanaagccca aaatacacga ttaagaatca 420  
cct 423

<210> 28795  
<211> 427  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28795

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tccttatecc ttcacttttt acatcctttg tacatttgag cccttcatga ccatgaaggg 120  
ctaaacaacc ctgggttgag gagctttcca ctaaactctc ttgatgtaaa aactcttact 180  
atctatttta tggtattgct agtttcattg ttccttctg tgtttattta tatgtacttg 240  
gtttgatcat ccatttatat gttatgtag ggtttaagca ttgtaaaata tggtaaattcc 300  
ttagaacttg aaagagcatc taaaatgatt cattgctagg gataatgtgc gctactttgt 360  
ctcgtaagc gggcaggtgc ttgctaactg aaagttatag accaatccca gctgtagaac 420  
tcgctaa 427

<210> 28796  
<211> 420  
<212> DNA  
<213> Glycine max  
<400> 28796

tgtaggggta aagtctcacg attggcacgt gctgatgctc atttgtagc cgaggctata 60  
cgagacatct tgccaaacaa agtcagggta gcgataactc gcctgtgctt tttcttccat 120  
gctatatgta gcaaagtcac tgattcagtc aagtttgatg agttggaaaa tgaggccaca 180  
attatactgt gccagttgga gatgtatttt cccctgctt tctttgacat catgattcac 240  
ttgattatgc atctggtcag agaaatcaaa tgttggtggtc ctgtttatct acgatggatg 300  
taccgggttg agcaatacat gaagatctta aaagggtata caaagaatct atatcgtcta 360

gaagcatcat ggcagaacaa gctagacatg tatttttacgt gcaagaccct tgtgatgaaa 420

<210> 28797  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 28797

cttaccatca gcaatgaaaa gatcttgata ttaaacagta atctttcaat tggcaaacga 60  
 ggctcatttt accaaaacag agcttaaaga aagataagat tgagattata gatatacatg 120  
 gaatatcata ggatttggtta ctactgtggt ctaattatct taatagatat acaaataagg 180  
 tgctttctct agcacacttt caattcatat tcaatagtct ccaatggtaa cccaaacaag 240  
 aacttaatct tccatatatg cacaagcatt aaaggagaaa agaactctgaa agttcattaa 300  
 agtaatttgt cgttcagatt gtgaaaggag aaagaagggt acaccttcca ctctcttttg 360  
 gctttataga ttataaaaca gtgaaatggt cacttgctta agcaaaacag atcttatt 418

<210> 28798  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28798

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 tcaatcaatt cattcacaaa cacttatttc atacaaaaca accactgaat caaattcaac 120  
 caattcactg ttcaaacaag ctttttgtac aagcactcaa caacactaaa ataactggaa 180  
 tttcaaaaga ctggaatttt aatgaataaa acataaataa attaaataac tgataaacta 240  
 aattgttcat aatttgtaga aattaaatca aaatagaatt taaacatcct gctcatcccg 300  
 tggttgatct tcattcatat ccaatactgg agctactgat gaatcctgaa tgggtgggctc 360  
 aggctccaaa attggtactg atggcaagggt ctctcanga gctggtgcaa gggatggctn 420  
 tggcatggga tttg 434

<210> 28799  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 28799

actaagctgc cgagcctacc ggttcaggga tgccctcattt agttcttagg ccgactcccg 60

ctctacgaag cacgaaaccc tccaaattca ccggtgggca tgtctaagca tatcagagta 120

cagttggaat tctgaaagac atttagatta ctttaatgac ctaaggattg ctttcaattc 180

ataaatatta actttgacta tataacaggc atctaactga acaagtatgc gacgggaatt 240

tgataaatgg attctgaccc agtcattcaa ggtctgggca atcgcgctgt actgaagtac 300

atatgagtga tcacagttca aatggagtta ttt 333

<210> 28800

<211> 431

<212> DNA

<213> Glycine max

<400> 28800

actcagcttt gaaacaaact gccctggatt cgattactat ttattaaact ctcttgtaaa 60

agcttttgtt aaaacttcat gtgctactca atgttttgaa aaacttttta gtacttatct 120

tgattgagtc tttttcttga ttcttgagtc ttgaatcttg atcttgatta ttcttgattc 180

ttgattcttg acaacttgaa acttgaaaact tctcttgaat ctttctcttg attcttgaat 240

tgttcttgac tcaatcttga aatcattctc ttgggctttt tgtcatcacc tttgttatca 300

tcaaaacacc ttgaatcaat cttgattcat catcatgaag gaatgaagct tgtttctaca 360

tttaagacaa tacatgctga gccataccac ctggctgata tccaagatgg acccggtcaa 420

gtacatcttt g 431

<210> 28801

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28801

ntttgatcgc tgnacaatcn gnaaccatgg aaaannaccg ctctgagcgn gagtatcaga 60

gttgctagcg aanaacctct tttttctcac aaaacaaact ggaaagatat agactgcata 120

ctctcctatt ccttgtgata tgataacata tctcctcact taaagaagta tcgttatgct 180

acctttaatc actttaataa taacacttgg tggaaggaaa aaagacaaat gctgtcatat 240  
 attaaataaa acacaaatat tcctatacac acaatgtatc gatacccaga tatagacaag 300  
 aatcattata acctaccatt agcgttccat tacgoggacc attgttgccc tactcattga 360  
 ttgagcttaa tgtccaacaa gaataaaagg gtgaagccat atatggacaa ctagtctacc 420  
 aattgctgta atcacccaag cgactttgac gtcgg 455

<210> 28802  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28802

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 acagagagtt ttacatttcn attcntacca aggcgagcaa agagagaaaag gatcgctcac 120  
 accacgccta catatggaac gaaaagagaa tgcgatagtg agcgaaacga taaagcttga 180  
 agaatgactc aacactgtgg agacgacata tcctaactat gcacaacgag gattagctaa 240  
 tgaagggacc cactattgta tgatcaagct caagaggcct aactaagtg tgcgtaggag 300  
 tacagtggca ggaccatgag atacacgcac ntaccgtaac tatagtaccg cgacgccgcg 360  
 gtgagccagc cacagcgagc cgaaaacata cgggtggaaca aaagccaacc tgaatcgtgc 420  
 tgcccacaca ttgacttata ctacaccccc gccagactca atcccc 466

<210> 28803  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28803

gggatgtgaa cgagatatcg cgggatatat acttgtgatt gccaaacaat aacgacatcc 60  
 atcgtctact acgaattaga gagacatatg ggctgacagg tatgtttgat tctatcgatt 120  
 gcatgcatcg gaaatcgata aatcgtctag ctgcattaca aggtcaatat tggacaagtg 180  
 atcattgcat acccataata atacttgaat gcgtgccgta tcacgacttg tgcatttgac 240  
 atgcattatt atggagtggg ggattcaaca tgatgacatt aatgcgtcaa accacatcat 300

ttgtgttttaa tgacattntg gaagggtgag ctctctactg caatatacaa tgaatcgaac 360  
 cccatataat atgagatact atattgtaga tgacgtttat cctgat 406

<210> 28804  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 28804

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 agcaacagag ttgccaatac gttcttccaa atttttcaac atttggtaca agagtgaaaa 120  
 atatgttgga aaagaagagt gaaaaaccaa agatcatgca tgattgtatg ttaagcaatg 180  
 aaaaaaagtt ggtgggggaa gtgagtatgg caaacacaac agcgggtgtg tgataatcga 240  
 tctagtttgg atctttatag atttttatct ctgaattggc ttgatcctct gctctagaac 300  
 agaactgtgt gacatttact tagactaaca ggctacatct tcattgtgcc gataaacagt 360  
 gatggatcag tttcgtgaac ctcaacagaa gccagttcat ttgccattat gtctgctggg 420  
 aa 422

<210> 28805  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 28805

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 ttgactgata catgtttcaa gatgctcgac tctagaacct agaacaagaa aactcggggt 120  
 acgggagaat gaccatcttg actcatagta attaatacac aaactctcta tacacacttg 180  
 aaatgcacac gcctctatca agcaaaaaca ttctgggcct cctagtcgca tatccatgaa 240  
 cgaggccaac agcttgcata actcacggac cttgaccttg atagaccgac acgtgatact 300  
 acgattaata cccttcatgg tgatccacac gaactggctg atagccgaca agga 354

<210> 28806  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28806

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 ctgataaact agtcaaggct ccccatgggt tagctaaagc agtatcaagt tttaacattt 180  
 tcaattagtt gattgaaact ttgtaatcag ccatagcaac cgtgagtccg tgatttccca 240  
 taatttcaca gtgatactgc aaacatttta gaaacctaact ctctatctaa tcttactgta 300  
 gttaatccat atctgtgggt atttgaaact ttttaagtat gcacttttga aatctccttt 360  
 tacactataa ttagttggat gaatatattn ttgccctct tcaacaaatt acaaactc 420  
 ttcac 426

<210> 28807  
 <211> 192  
 <212> DNA  
 <213> Glycine max

<400> 28807  
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 ctggaaggcc cgcttggtat aacacgagct cagccacagt tttgaggggc ttaataaggc 120  
 agcaataacg agtcatgct ccgaagaggc gaaaagaatg atcacgggtc acatgcatga 180  
 tcttcacgga ct 192

<210> 28808  
 <211> 563  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28808

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 aganaccggn ngaaaatcaa acacgcacgc tgggcatagg acgacaagac aagactgagc 180  
 ctttttgcct ttatagnacg acaagagagg gaaggtggac ataaactcac caactgacgg 240  
 agacttccgt actaaaagga acaatattgc gcgacataga aggggagacc atgagatgct 300

gcagatgagc tagaagagcg ccacatatgg atggtggacg caacaagtta ggaacaacca 360  
 tagaacggct agagaaacct caaccgggat gattcccaga cgggtgtaaaa cccagcaacg 420  
 accagtaaat atgcaaggga accaatcgaa gcaaaaatac gcaggctaac agtatcactc 480  
 tgtgtggtgc gcagaggaga gctggataga gctaccatcg catgagacgc aggactagg 540  
 cacatcaatg cgggcaaaaa gac 563

<210> 28809  
 <211> 207  
 <212> DNA  
 <213> Glycine max

<400> 28809

acacgctaag cgcattccctt gcgctaaacg ccatttactt cacacactaa gcaagctggt 60  
 gttcgcgcta cacaccttga cccgtgctca ttggttgcac ggacgcacta atcgagtgcc 120  
 tcacgctaaa cccgaaaacc tgtgcggaat ataactcctt taaataggtc ataccgcgaa 180  
 tgccgcgataa gaaccattgc ttctctg 207

<210> 28810  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 28810

tctaaacttt atacaagaat gaagctctga taccatttgt tagacttttg gcctcagata 60  
 tcttaagaag gggggggttga attaagatat tccaaactac ttccccaatt aaaatctatt 120  
 tcaactctctt ttcaagttat aaattccctt aacaatgaac ttcttaaata ttaattcaaa 180  
 taagacaatt tgaatatgaa tatcaagcaa taataaaca aggagataaa gggaaaagaa 240  
 agtccaaact caaattatta ctggttcggc ccaccttggg gcttcgtcca gtccccaacc 300  
 aaccggttg aaagtccac tatctggtaa attcctttta caagtcttaa ccacataagg 360  
 acaatccttc cttgggggtta aaaattcctt aacaccagaa aac 403

<210> 28811  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 28811  
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 ggcgcgcacg agacgggtgc ggtggatcgg cgaggcgagt actcagcgt gtgccgatgg 180  
 acgggtgcaca atttcctcgc gataaaggct agggcacttt ggagcaagta ctttgaggta 240  
 ggcggttacg attgtcgggt gctaataac cccacgggtg actcacaggc gctgccaggt 300  
 tacatctcca ttacactcca aatcatggac cccgcgggca cctcttcctc caaatgggac 360  
 tgtttcgcca gctatcgctt ggcaatcgtc aacctcgccg acgattccaa aaccatccac 420  
 cgcgattcc 429

<210> 28812  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<400> 28812  
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 gaaaagatgg gcacaggctt ttggatagaa cgaagactgc aatatcgtag ggtttgaaga 120  
 aactatgac acctgaaagt gtcgctctca ctctacgct tctactgtac acacaccaac 180  
 cctatgtgtc atgacccatc agtcaatcca tgcattgctt gacacgctaa gcctcactct 240  
 ctacttagt acacatgtaa tcaagtccac cagcacattc gagactgaat ggtatacgct 300

<210> 28813  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28813  
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 tgggagattt gatttgagcc atcgcccgat agccacctag taccacatat gacgggtacc 180  
 ccataatcca acaagcttga tgtgagaaag cgtggaagag tcagtcttcc tacttttgtt 240  
 tggtgaccac agagtggtag ctggagatat gtcacgggga tcaggagacc ttggggacgt 300



caggtggggt gctattgccc aaaaccaagc ttgaccaatc ccgacccaac cggggcatag 360  
 tcagtcagtg agaacctgtg atgtacctaa acaggcgatc tcctggcagt caaccaataa 420  
 aagaacaaag tcca 434

<210> 28814  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<400> 28814  
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 tataggctct tatgttcaat ggtgaggggt atcattattg gaaaaccga atgcagatct 120  
 ttatagaagc catagatcta aagatatggg aagccattga atttgattcc ttattccta 180  
 caatggtaga gagaaatgca actatataaa aaaaaactag agaagaaaga agatgatgat 240  
 gaaagaagaa agaagaagat tcctcttttag ccccaaatg ctaagtgcga tcaacttggg 300  
 cacatgagat tcaattgtcc tgtgttttaa agaagaatgg aataatccga caagatgaat 360  
 ttcaaagaga agaaagaaaa gaaaggatat atcacttggg aagataatgt cataaattat 420  
 tcaagtgatt cagaga 436

<210> 28815  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28815

cccccccca cgaccgggaa atagaaaaca cagcacaaaa acacacaaaa aaaaagaaat 60  
 gaactgagcc tgaaacggaa cnaaccnaac ngacagagca acccgacacc gatgtacaca 120  
 ttttgggctg gaggcnaag aaagggggcg cggcggaaga caggccaaac cactacccca 180  
 agaaagaacc atagcacccg ccactcgca agagaagcca cgaacacgaa caccttaaat 240  
 aggacaccaa atcacacaaa gggaatacga ggacaaggcg aagccgaaca aggagacgca 300  
 gggaaaagaa cgggacaaca cagagttaaa cacgggccga cacaccctcg agccaacggc 360  
 cagtaccgga gcagcccaca gtgagagctg cgccatcagg ccaatggcaa ggacacgctc 420

taaaccgaag aggacaaaac tagcttggcg cgtagaaacc ggaacaacaa gagacacacg 480  
gactcgcacc ccttaggaat gaggan 506

<210> 28816  
<211> 253  
<212> DNA  
<213> Glycine max

<400> 28816

agcccagcca ccatttttcg gtaagaactt atcactacgc ctaaataaac gatgtgcttg 60  
agctgtatgt cacctttag ctatgacgct catctgccaa ccaactcacc atccttgtca 120  
tcataacggc aatgggtgtca ctgaggctat tgcacgacaa tagtttatct tgtaagcttt 180  
gcagagcagc aattgtatat ctaccgagca tatttatcca cattggcatt agcctgacca 240  
cattccagag cat 253

<210> 28817  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 28817

tatcactcca agggtcagct atgaagattc atgggatggt attaaaaacc ttctatgagc 60  
acaatcacca aaactcactc tcccaatgaa taatgtcctt cgagaagaag aggaaaagat 120  
aagccaaggt ttttggagaa agtgaaatct ggaatatctt atggttttaga gtagtttatg 180  
acaattgaaa gtctccctct cacacctagg cttctactat acacacaaca acccttcctc 240  
tcataaccca aaagtcaatc catttaagct caaacacact aaaactcact aactcacata 300  
aaacacatat aatccagtca acaagcacat taattaatta attttaaaca cttaattaaa 360  
tttaatttat cttgttatta aattaaatca cttataccac aattaataat taatctcgac 420  
attacat 427

<210> 28818  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 28818

tcttttgaac tatttgaac aaccaaagcc ttttcagttt gtatgtttta agaacattga 60  
gctataaatt cttattgaaa tttgaaacat ctaccctttt accaaataaa aaagaataaa 120  
attcaattgt atttggggct atgtgttttg ttttgattat tgtttctgga aattacactc 180  
attttgaaaa aattgtaacg tacaaaattt atagcttgct ctgaacttgt aacagctact 240  
ttggcaccca tgtttcacat gcttggtttt tttgtatttt gtacgcttga gctgtatacc 300  
ttgtgagatc aaaataacat gtcactctct acttattctt tctattatta aatattgctt 360  
ataattatgg cacgagaaat tcttagtgct gaatcttcaa ttcgcaggag gagtgttgc 420  
agagact 427

<210> 28819  
<211> 421  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28819

tgagatctcc cttgacaatt gaatggaaga gatgacatgt attntattct atgggtntaa 60  
taccttecta gcacagtgtc caagtttttc tctgttgct ggttggtgat cctcattctc 120  
actctcactc tcagctaaaa ggcgcctagc agtgccagaa atatcagaga aagagaaaaa 180  
agtctgaaaa tgtgatgtgg cttttgttaa ttcttctt ccattatcct ttagactgca 240  
aggaagcata tggtagtcc aacccactgg aacacaaatt ctgattatcc cattttgtgt 300  
tattgtcagt agcagagaaa taaagcccaa tagcatcaac tctgaaacga agacagaaaa 360  
cagaaaagga aaaaaatatt gcgaaattaa tcacatccca attntcataa cagaagtccc 420  
t 421

<210> 28820  
<211> 422  
<212> DNA  
<213> Glycine max  
<400> 28820

tttgaaggg atgtgaacga gatattgtgg gatatatatt tgggaaggcc aaacaataac 60  
gacatcaatc gtctactaca aattagagag acatatgggt tgacaggtat gtttgattct 120  
attgattgca tgcacggaa attgaaaaat tgtctagttg cattacaagg tcaatattgt 180

agaagtgatc attgcaaacc catagtaata cttgaaggcg tcccgtaca agacttgtgg 240  
 atttgacatg cattattatg gagttgtgga ttcaaagatg gacattaatg tggttaaacca 300  
 atcatttgtg tttaatgaca ttttgaagg ttgagctctc tagtgcaatt tacaattaat 360  
 gtaaccccat ataatatgag atactatatt gtagatgacg tttatcctga tttggatact 420  
 tt 422

<210> 28821  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 28821

taaaacttgt ttgcattctc ttgaattcac gattgtcatc atcaaaaagg gaaagaatgt 60  
 ggaagcaatg cctccaagg gtattttgat gatgcccaag aatcaagagt taatccaatt 120  
 tcaaagattc aagaatcaag tttcaataat ccagattcta gattcaagaa tcaagcttca 180  
 agaatcaaga ttcacggatt atccagatca agattcaaga ctccagattt aagaatcaag 240  
 agaagactta atcaacatat agccttaaaa agtttttcac aaccttgagt agcacaagat 300  
 attttcacca aatcattacc aaagagttaa ctctctggta tcaatta 347

<210> 28822  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28822

gcgcgggtct gggagacaaa ggtcaagtgg tctttatatg ctaagatgat gttccgagta 60  
 cattggattt ggtacgacca tgccctcctg atttccagct gggaaattgg cgagtggagg 120  
 aacgccccgg catttacgca atgagcataa tgtaaacctt tacgggttttt aaaagctcta 180  
 tagttggggc taggcttttag agtttttctt tttgttaagg ctttgtgtct tttgtttttg 240  
 aatttcta atcaggagacct ttcttcatct gttcctgcgt ctctacccat tctcattcat 300  
 ttgcatgttc acttcttttt ttgaaacggc agatccgatg acgagtcacc cgaagggtact 360  
 aatacctgng acccgcttat cgacttcgag caagatatga atcacacgga agatgaagga 420

aatg

424

<210> 28823  
<211> 470  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28823

atgaacttga tactttttgan cnttgaaana nctcgganag aancacncca ganagngtna 60  
gggaccacca caatttttcat tttcaaatgn atgacgagcc gacgagacca acggtgtact 120  
aatcgcccaa aaaccacatc ancnttatct aaaacagtat atatttagcc gctcatctta 180  
agaggggtttt taaagggagt gtaaaaaacat actatcatgg tgcccatcac acatgagacc 240  
actaagagaa cctcacacta tctagaaaaa cgcttcaagt caagattacc tataacataa 300  
ctactaaaga tacgattgag agcttgttct actccgaatc cttgaagagg attctcaaga 360  
tategctcca ataaaagcgt tcctctccat gcgatggtct ggttgcaatc aaccacagct 420  
cgctgcgggcc actgatcgtc atgaaactag gacgacgacg tctctatccg 470

<210> 28824  
<211> 361  
<212> DNA  
<213> Glycine max

<400> 28824

tatatcgaga cgctcgaaaag ttacaaccga gactagtagc aaactcaaac gaccataaca 60  
tatacctcgg agagacgatt ggggtcccgcc atatatcgag acgatcgaaa ttttagaccg 120  
aagctcgtag cacatacgaa cgacaataac attgcactct gaagaccgaa tgagtcgggt 180  
agtatatcga gacgctcgaa atgtaaaact gaagcctgta gcagattcga acgacaataa 240  
cagtacgctc gggagtccga acgagtgcac ggatatatcg agacgctcga aatttacaac 300  
cgaagctcgt gcgaattcaa ccaaaaaaca ttcactcgga tgtcgattga gtccgtatat 360

a 361

<210> 28825  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 28825

ttttgggttc tactacaaat ttacgtcatt ttaaaattcc gaccgcgcca atgtgaccaa 60

ggtttagcga acgtcacaaa aataacatca attttatata aaaaaatatt tttttaacgt 120

ctcattttca aggggttttc aaaggaggatg taaaaacatc ctatcatggt acccaaaaaca 180

caagagacca ctaagagaag ctcaaactaa ctaggagaaa ggcatataag tcaagattac 240

ctaaaaaaaa actacgaaag aaaggattga gagcttggtc tccaccgaat tcttgagggtg 300

gattctaagg atctcgcttc gattaaagtg ttcctctcca tgcgatgggc tggtgccaag 360

caacgacagc tcgtggtggc cactggtggt catgagtggg gga 403

<210> 28826

<211> 348

<212> DNA

<213> Glycine max

<400> 28826

ctaagcttct actttattgg gattagaact ttttggttct tttatgggaa gtgctcaata 60

tggggcattt gcgcgtttct ggcttgattg ggtggattgg ggttgatggg atggccctac 120

gcctataatg attttgaaca tggggcatgc cacattgtcc cgtctcttgc tattgatgcc 180

taacgcgcgc ccaccagggt cgggaaatgc ctaatggcat tacgtggact tgtaaggaaac 240

aacccatggg gctttggttg acatatttca tttttggaca tgtatcttcc caaaagctaa 300

atattgctcc atattctatg ctagaccaag tttatcaaaa acacaaga 348

<210> 28827

<211> 268

<212> DNA

<213> Glycine max

<400> 28827

gacgactggc ttaacgtatt tactctcgga accttttcgg aacgcagctg agctcggata 60

atatacttgg gactaatatt ccatatttac cgtaacagag acaaaagagt cctaggcgcg 120

atcaccatat tctctcatat acaagccctt atgtatatgg acactacgcg gcagatatag 180

gtaacaagat tcaccctga cacaagagg ggccatactt cagctcctat ctacatacct 240

tttatctgtg ctaggatgag atgctaaa 268

<210> 28828  
 <211> 555  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28828

accgccgcca acacnatagc atngaaaaaa cagtgaacat gcacaggcac gcgaaccgat 60  
 gaacaaacca caaaaagaga aanattgaaa ccctgaactg cagacccttg caaaccgnga 120  
 actanagaaa acncaagcgn ctaccaaaga gcccagcagc gattggcgaa acgagacata 180  
 ggaccaccac gccagaaggg ggagaggga cactgaaggc aaaccccgat gccgaatttc 240  
 ccagctgcga tacactgaag agaccatgcc accaccccga ttagcaaccg acacaaacac 300  
 cggaggaaaa agaggacca cacaataatg gacaaaaccg aggccttaga cgacaggaag 360  
 cactcgactg cacaagacag agaggacgga gtacgagaac accacagaaa aggagccgaa 420  
 gaacgaaact ggaggagacc gagccaccac agaagacggc agacgacgag gaggtgagaa 480  
 accacgacaa gaaggacagt gtgcggaaac cacgaaaaga accacgcagg gagcaaccag 540  
 gacaggagac aaaac 555

<210> 28829  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28829

tgccacccaa ctgccccagg cgagcaaggg tgcttccttc ataagcaaca gccttctgga 60  
 ggaatcttct ggaggggcca agtggggcctg gttgctatct gcacccccat ttttctaaat 120  
 acaccccttg cttttttttg gtgattcttt tttcgtaaag ttacggaaac ttatgaattt 180  
 cgtaacgata cttgttttct tcctgtaatg tcacggaacc ttgcggatta cataatcatc 240  
 ctttttttga cttacggaat gttacgaaac ctactaatt gtgcaacgat gcttcctctt 300  
 gatttccggt gtgtcacgga accttacgaa ttgtgcatca atattttctt ttgatttccg 360  
 gcacgtcacg aaatttcaca aattgcctaa tgatgggtgt caagcacctc anaatgac 418

<210> 28830  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28830

tcaagaaaaa gatggcctca gcaaattcct tatttccaga ttggaattct atcaatagac 60  
 ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120  
 aggcaataga tttaaataatc tgggaagcca ttgaaatagg gccttatata cccaccacag 180  
 tagaaagagt ttcaatagat ggtagttcat caagtgaaag cataaccata gaaaaatcta 240  
 gagatagatg gtctgaagag gatagaaaac gagtacaata caacctaaaa gccaaaaaca 300  
 taataacatc tgccctagga atggatgaat atttcagagt ttcaaattgc aagagtgcta 360  
 aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatgtt aaaagatcta 420  
 ngataaatgc actaac 436

<210> 28831  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28831

tcagaccaca acaacacana atctaggtat ccaaaaccct tcaattttat ggattttcaa 60  
 ggtttgagaa gtgaaattga gaatgaggta aatttggagc aaactctcac ctacacaag 120  
 tctataacat caatttaaac ttgctcaaac tggatttaca cctaaaattc caccgaatca 180  
 aaatttgact cctcaacacc caattttacc ctagaaatgg ctctttgttc actttgggtca 240  
 tttgtttttc tctcttgtag agcccaagct ttctcataag tcctaaatga catttcaagc 300  
 taggattaac tcactttaac ctccaaatgc cactaaatcc agatttggcc ttccaactct 360  
 caaaacctca ctctttttcc actcataaca ccatattctc acttttctaac cctagggttaa 420  
 ctctaccctt cttctc 436

<210> 28832  
 <211> 400  
 <212> DNA  
 <213> Glycine max



<400> 28832

cttaccggtt gaagactgaa gaaaatttta cttttgatga atctcgaaga acggctcgaga 60  
atcttcgcgt aattactcac ggaaacgtta cggaagcgcc tcggcttgga tcattctcat 120  
ggaactaatt ttcctcagca atttcgagag agagagaagt gcctaagggg ttgaaccctt 180  
ttctttctca cttctcccc tatttatagc gaaatagggg ttgtatatcc tcaaataata 240  
atccccggac aaaattaggg tatgacagtt gccctcttt acttacctct catcgagat 300  
aagaggaaag caaagataag acactgattt cgtccgtcct gcccttatcc gtgatgacga 360  
ctctcgtcta tactccttct tttgttcttc tgcaccaaac 400

<210> 28833

<211> 386

<212> DNA

<213> Glycine max

<400> 28833

cgcttcacaa tctccacgct tttgatgatg tttacttttg tggtcatgaa acgcacacac 60  
acacactttt tcctatgacg atcactcaca tacatactca ttcttcccat ttgtttttga 120  
atztatgctt ctcttgcaat tacggtgatt actcatgtga gttcttgatt taatccctat 180  
atctctcccc ctttggcatc aacataaagc cggagtgcac aacacgtttg aatcatgcaa 240  
atacatctaa gcatgcacac aatatttatg aaatatataa tgcaaatacat gactcaggaa 300  
ccatgactct atgaccacga agagatcaaa tatagaatcc gcatagctaa ataacataac 360  
taatatttat tcaaacatac catgca 386

<210> 28834

<211> 88

<212> DNA

<213> Glycine max

<400> 28834

gatgggtggg ccaagacgga tatcaacgat gacgatgatt ccaagttgtc taacatgaag 60  
attgatgcat ttgttgaagt tcatgaga 88

<210> 28835

<211> 365

<212> DNA  
<213> Glycine max

<400> 28835

taacagcttt acccatctac ttgtcgcctt ttttcagaat ccctaaaaaa gcggtgtata 60  
agatagtctc tattcaaaga aactttcttt acaaaaacct tgactaatat caagcatctt 120  
ataacttcta aggagttatt tactttcaaa aaagcaaaat taattaacag atacgaacct 180  
tcaactatac agactattga ggctcttaat cagatagcaa agaatgagga aatcgatcta 240  
tccgccaatt ttgctgcaaa aatagctaca aattctaagc agaacctcaa aaaagcaatc 300  
atggctcttg aagcatgcaa tgcacacaag taaacttctg actgacaaca tatttatttt 360  
aacat 365

<210> 28836  
<211> 58  
<212> DNA  
<213> Glycine max

<400> 28836

accgtcgttg ttctctattg aacacccaca ccgagaggaa cccttcaacc gaagcgga 58

<210> 28837  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28837

tcatgatgaa tcaagattga ttcaaagagt tttgatgatt ataattatga tgacaaaaag 60  
ctcaaaagtc aataaactt catgataaca aagatgatga tctcaagaat caaagaatga 120  
gttcaagatt gaatcaagta cacttcaagg atcaagagga aagttgaatt caagaatcaa 180  
gaatcaagtt tcaagattca agttccaaga atcaagatca agattcaaga ctcaagattc 240  
aagaatcaag agaagactca atcaagataa gtattaaaaa gttttttcaa aaactgagta 300  
gcacatgaat ttttttcaaa accttttact aaagagtttt tactctctgg taatcgatta 360  
ccagattatt gtaatcaatt accagtagca aaatggtttt canaaaaact ttcaaactga 420  
atttacaat 429

<210> 28838  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 28838

gagagatgaa aaagaggaat tttttttgga aaagtcaaag cagataacaa acaatttatt 60  
 ctcatntaaa atatataact ttaatattat tccatttttt gaaattcatt tgtttggtat 120  
 ttccttattt taacaattat atacatagtt gaattccaaa agaaaggcat tccttaggtg 180  
 cacatttttc tatttatgct tgctgattca agacatgttc atccagatga cattgataaa 240  
 attatatcta tagatatacc taaggcaacc aatgatcctg aattatttaa agtagttgct 300  
 tgtttatgat tcacggcccc tgtggaactc aaaattacaa atcacctcac atgcaaaagt 360  
 g 361

<210> 28839  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 28839

accaagaaaa aaccactttt acatgcccct ttggtgtctt tgcttacaaa aggatatcgt 60  
 ttgggttatg taatgtccct gccacctttc agagatgtat gctagccatt ttgttgatct 120  
 ggtaaaaaaa tgcacgatg tgttcatgga ttatttcttt gtctttggat tttcctttga 180  
 ccattgttta tccaacttgg aattggtgtg accacaagat ctctgtctga gggattgaag 240  
 tggacaaggc aaaaattgat attattgaga agttgcctcc acttatgaat gtgaaaggca 300  
 tccaaagtta tctcatatcat gcccgacttc tatcgagagt tcataaa 347

<210> 28840  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 28840

tgaagaaact gtctacatgc agcagcccc aggtttcgtt tatgacagta accttgtttg 60  
 taaactgaac aaggctctct atgggctgaa gcaagcacct tgtgcatggt ttgaaaagct 120

ttcagcaact ctcatctctc ttgggttcaa ggctagcaag tgtgaccctt cettatttgt 180  
 atgtcatgtg gaaacacaac ttatgcgctt gtctatgtgg atgacataat ccgcactaga 240  
 aataatagtg ttctaattca gcaacttatt tcatagctaa actctatttt ctctcttaaa 300  
 catcttggca agttggacta cttccttggg attgaagtca actataattc cgcaggttct 360  
 gtcatgcttt ctcaaaccaa atacatctca gatttgcttg aaagagtaaa tatggaaaaa 420  
 gctaaaggaa ttt 433

<210> 28841  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28841

acatcttaaa tntcatgcct attaaccgaa gtattgcact tctgactatc taggatcccc 60  
 atattttgta tgtaataataa actcatcaca caattataca ttgatatgcc caaaatgagt 120  
 tattgctggc aaagtctata cacatgtttg ggattactta tattaacat acgcataata 180  
 caaatattgg aagaagcaac tgcaaatgcc aaggcgcata tgtaaatgaa gttgtactac 240  
 aattcatttc ctcaaggacc ttagcacttc acttgatga cttgactcta tagccggcca 300  
 catatcatgg agctttgcag agatgttatt tatcaagttt gtaacttcat tataactga 360  
 ttgttgatgt tctacctgat cattcgctac ctcttctggc atccttgaga tatgtgaatc 420  
 aa 422

<210> 28842  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 28842

gctttctcta ccgtaccaca gatattatcg gccagagggc attttaagat ttgcgctttt 60  
 tcggcagaaa aatatcatgt cgggctatat aacgaccgat gtcacgtatt tgtgtctcaa 120  
 ttcagtcctt gaataatctt tggatattgt ccaataggat atgctcgatc ggcgtcatca 180  
 ggtgatgctt gctttttatt ttatactgc tggatcggtc atctttcctg gccgacatcg 240  
 actatcattt tttttatcag tgtcgggtgaa taatgttatt tggccgaggt gggctgatgt 300

ttttctagcc gattaaatga taacacgcca gttgtcggcc gaaacacaac tccagttgag 360  
ctcgcacgat aaaacatagc cgacctacat tgtcagtttt gacgcgacac 410

<210> 28843  
<211> 434  
<212> DNA  
<213> Glycine max  
  
<400> 28843

actagctgaa gcgattggga aagtgaatgg gttgagatag gatttattga gaaagagaaa 60  
aaaaaaagtg agagagaaaag agaaaaatct tgtgagaggg aagggtgcac acaacaacac 120  
agtctatata tattggatcat ctcatataaa aaaaaataa taaccactt aaaaagacgg 180  
gaagagacaa cgtggcagac acgtgaggtg catgtgcgtt caatcagga cgtgcatgtg 240  
ttgtgttact taaaaacact tcaaggttca aggaaacgta cacaagagtt gtaatatatt 300  
catattatta atatatcggc acattaattg atattgttaa tttattgtct tgatttattg 360  
gcttgattct ctgtactgtt ctgattcatc tcatcaatct tcttattctg taattctata 420  
ttatattgtg cggt 434

<210> 28844  
<211> 433  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 28844

tcaaaactcg ctgactagt gctaggaata ganatcatgt tctgtattta attatagaag 60  
actttttgtt tgtacagata gtagcataag atcgtatata gttcgcatac aacggaaccg 120  
ttggttttct gtgtatagct ttaactacac gttgttggtta aataacttaag tagaatggta 180  
ctatagccat ttgcgtttga gatttacacg tctgaaaca ctgggtgttg ccattttggg 240  
tgtgataatg ttcaggatca agttgttact tactatctag tatcttcagt ttgaaaaaat 300  
aggtcacaca gagatacttt ctgtaggcta aaaattggga gaatgaacta tctagatatg 360  
tgcttattaa aattaggttaa ttcataccat tatcttagtg taaatatgtt taactataaa 420  
cttgtaatata ata 433

<210> 28845  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 28845

taaagtatgc ccgagtcatt catccctatg agatgttggt taagtattgg cgatcagaat 60  
 tgccattcct tggattatag ggttgaacca agctcatgct tttaaaaaa ggttcatcaa 120  
 gtcaagttga aatatggaag taaccgtctt gcaaaattgg ggcaaaagat gaattgagtc 180  
 acatcactgc ttogtctact gccaaacata ttaggatta ttgatgtcct tgttacttcc 240  
 agtttcacct tgacaaagat gtcattggacc atgttgaaaa tctaaattga ttcaacccca 300  
 tatcttgctg aaaaattcgc aatacttcaa ctgtgcatca ttgcgcatgca tccatgcttt 360  
 tcattgggtg cattgctcgt tgcattcttt cctttgaaaa taaaataaaa tgaacttaat 420  
 cattgttat 429

<210> 28846  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28846

tgctgctacc tgccctccgg cggnggtgcg ataaggcttt tcgtatgtgc caagggtgcg 60  
 tcttccaagg aaggaaaacg cgtggagtcg ccaccaatgt ttattcaagg aaaacgtcag 120  
 aaaaacaaaa aatggaaaag gtcaaggggtc tacgtatttt gaaaatgagg gttcggaat 180  
 catttacgca tggggaaagt attagcacc cactgtccca tcacaaggga cgacaacctc 240  
 taattgagtg tgcaaatcat gacttcaaaa ttgtatattt tcccttttat atgttttttg 300  
 tgtatattcc ctttttatgt tattttttta tttttggcc tttctacgt ttttactttt 360  
 ttgtgggtcca caaagggttt tccctcactt ctacgtattc 400

<210> 28847  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 28847

tcattgttga ttacacagaat caaagtaacc ttttttctct agattcgtga gaactaccaa 60  
 ttgagaagag gaaaagaaga taacctgtca cggaggatga agagtgtaaa ccgaactcag 120  
 aagagaacaa tagtgattct gaatcccttc catgtcatta caaccacaca ctttaccac 180  
 caccacacac tgccacggtc gcagaagaaa cacacacttg gcgtcttga cactcgcact 240  
 tccacttcgc atcgttgcca cgaccacccc gcatgcgcac cttgccttgg ctttcgcagt 300  
 cgcacatcg cacaagtaca ggtgctggga tagagtgatg gaacaactga gatggagt 358

<210> 28848  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 28848

gcctagtctc atcggcgacg actcatcgga tttttgggtg ggtttggagg tccaaaatca 60  
 catctgagtt tcaatttttg tatcccttgg ctgatgctct cctcgccgat ttgacggcg 120  
 acatggtgga agatcgctgt gtttaaccgt agagggtggtg gcagatccag acgctgattc 180  
 gaataagaaa acgttattca tggacaaaga tgatcaagaa gatgaacgtg taccataaaa 240  
 tgtgattctt ttttatttgt agaagctgaa tattattgcc aaatgaatgt ggaagctgat 300  
 atgcgtttca atttatatgc tttatattat tgaaacatta agaaactgct ttatatgcgg 360  
 tagtatatat atatctatat atacatatat atatatatat atagatatat at 412

<210> 28849  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28849

tntaaaaatc tattatggta tatatatata tatatatata tatatatata 60  
 tatatatata tatatatatt ttcgtataag agtttttaga cataaagtat ttgaccccc 120  
 tttcaaatct gttcaccta agaattcatt caacacttag ttctcctaaa atgttctctg 180  
 gtaatcgatc accacaatgt gtaatcgatt ataacaaggc acactaagtg taatcgatta 240  
 caaaaaaatg taatcaatta caacacgtcc ctgatgctta taaattcaaa tttagaatt 300

cacgaaactg caacttcgtc tttctcgcga aacccttatt cccaaatttt ctttctacca 360  
 taactaactc atttcttata caaatcacgt ccacaaaagc ccaaaattca tcttttttca 420  
 ttcn 424

<210> 28850  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
 <400> 28850

taccattctt gtggcacgct atcgaccgta ccgagtcttg ggtgtcactg tttatcatcg 60  
 cgtgaccgtg cgtttacttc gtgtactggc tggcatgact ccgtcttcga cgagacactt 120  
 gttcgcgatg cagcgatagg aaacagtgtc gagttgaaca tgagtaagag caaagttgac 180  
 tgctttacga ctgtgcgtta ttctgggact atgcatatcg ctgtatactc accaaggaca 240  
 ttcaccattt atagtaggta tttatcgata atggatgatg aatttgtacc acgcatctcc 300  
 gatgggatga gtcttgcttg tctactcta gtgtggaagc aaacctgtg gcttcataca 360  
 cgctctcttt ggattacaga ttcgcatact tgtgctgaat atcaactgct agctctagat 420  
 agtagtgatg tttatcg 437

<210> 28851  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28851

tgagatgagg aagtgttgaa tggtgaaact tctgctttt attgntttcc acagagtggg 60  
 acctggagat atgtcgcggg ggtcatgaga ccttggggac gtcaggtggg gtgctattgc 120  
 ccaaaaccaa gcttgaccaa tcccgaacca acccgggcat agtcggtcag tgagaacctg 180  
 tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaca aagaccacaa 240  
 agcaaggagg cttgtggtgg ctggccagct ctggattttg tgtgatatgt ggagtatggc 300  
 ctctggtaat cgattaccaa ggggtgggtaa tcgattacaa ggcttaaaaa tgaagacagg 360  
 aggctaagat ggtctctggt aatcgattac caaggggtgt aatcgattac caggctagaa 420  
 aacgaagtca g 431



<210> 28852  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28852

taagctataa gaacggactg tcacttgcat agaacttccg gtttgtntat tagccaaaca 60  
 ttatttggca aaaggtacgc aagtgaaaaa taaaaacatt agtgcaacaa taactaaaca 120  
 aatatgtatt cctgtatcaa tttctaatat atagtataa ataccatagc aacatataat 180  
 ttgattcaat gtttcataca tatagattgc aaacttgggg gaaattgtgt aaggaatatg 240  
 ctaaactctgc aacttaagaa caaaagcata taatattggt tatggaaaag acatagggaa 300  
 gtcctaacct gattatagat gaggcgttcc agacataagt caaataattg taccatattt 360  
 tatcaaggca tttacattca caagttgtga gttacacaaa aggatagtga gtatcacaaa 420  
 gtcctta 427

<210> 28853  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28853

tccatcatag ccgcaattga tgctttcctt gcatatcacc ttagcattga gagcccggng 60  
 gtagctatct tggcgggctt attttacaca tttgactgaa gatgcgaaaa gagtagcgca 120  
 cggatcatct gttgtttacc cgctctatcc ttgcatatca cttaaagttc gtagaccacg 180  
 tcttttccgg tttttctgat gttttcctca aataaacgtt ggtggcgact ccacgcgtat 240  
 tcctttcttg gaagacgcat cccgcgagtc acgcgtcgcc ctctgccga agggtaagtt 300  
 gcgacacacg cctcacctt cagaggacta cgtgtcctcg ccatcagagg gctggacgcc 360  
 ctcaccttta gaggactaca cgtcctcgcc atcagagagc tgcacgccct caccttcata 420  
 ggattacacg tectcg 436

<210> 28854  
 <211> 413

<212> DNA  
<213> Glycine max

<400> 28854

tattaaaaat cacgtatddd tatatgttgc atttcatatt attgaacttt ttcaataata 60  
tttgtgatta taattaattc taaagattgc attagaaaaa aagtgtttta caaaaactat 120  
tataccattd taattaatca tgactttggc gtaagatatt taatgatttt attgactact 180  
aatttttgac gaaggatttg attgagtttt tcaaccagtt tttttttttt tttcgatttt 240  
gagatcttga ttcaggatta aatttaattc tacttaaaact aattatgtaa taaaaataaa 300  
aaatgagtag tttttttttt ttgttttaat tcttctgttg aaaaaataaa acaggactaa 360  
gaattgtttt aatacagtga taagaagtgt cctcaactat aaatggagga aaa 413

<210> 28855  
<211> 409  
<212> DNA  
<213> Glycine max

<400> 28855

tcaacattca atttcgagcg tctcgatata ttacgagact caatcttaca tcagagaaaa 60  
acgttattgt cgtttgaatt tgctcagagc ttcaacattc aatttcgagc atctcgatat 120  
gttacgggac tcaatcagac atccgagaaa aaagttattg tcgtttgaat tagctcagaa 180  
gttcaacatt caatttcgag cgtctcgata tgttacggga ctcaatcata cattcgagaa 240  
aaaagttatt gtcgtttgaa tttgctcaga ggttcaacat tcaatttcga gcgtctcgat 300  
atgttacggg gactaatcag acatccgagt aaaaagttat tgctggttga atttgctcaa 360  
agattcaaca ttcaatttcg agcgtctcga tatgttacgg gactccatc 409

<210> 28856  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 28856

tgtaatcgat tacacacata cttgaatcga ttaccagatt attttttcag aaaacattct 60  
caacagtcac atctttttgt gtggttcttg aatggctatc ataggcctat atatatgtga 120  
cttgagacac gaatttgaca agagtttttc agagcaaaaa ggtcttatac tcttataaag 180

agaaatcgtt ttatcctctt acaaattcct tggccaaatt acttgtgatt caataaggaa 240  
 ttatttgagc gctcaaattg atcaatctat ctctttcaag agagatttct tcttttcttc 300  
 ttcttcattt tgaaaaggga ttaagagacc gagggctctt tgttgagaa taattctaaa 360  
 cacacaggaa tgcgtgtcct tgtgtgttt 389

<210> 28857  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 28857

tgagaagctc tatgcgaagt gaaacaattg attaggattt tcagattata gaaagatatg 60  
 aatgagttaa ttgattacc aattagctaa tcgattaaa ttgttaatac tataaatacc 120  
 tttgcttatt ctactacaa gaaaaaatga ttttaacgag gggtattttt ggccttaagg 180  
 aggggtttaaa cccccgtaaa gtatgttacc tattgttggt gttctcattg gcaaaacatc 240  
 cacgataaat ggtttacc aa tggcttttgt gaacccttta aaacacaaga attacttgat 300  
 gttttgaaac ccttggtaat taccaagggt ttattaaccc ctattatcac cacaatcatt 360  
 gctggacgat ttaaaaccct tggttcttat t 391

<210> 28858  
 <211> 224  
 <212> DNA  
 <213> Glycine max

<400> 28858

gaccacagac aatggcttat agctaattcg agcgctaatt ctataaaaac taatgaatgt 60  
 ttatgaaata ttttggtgga ttctgaacaa agcttgcttc tactcagctt ctgactttta 120  
 ccacacgtca tcgaaattgg agcactctct ttttaccxaa gttgaaacat tgacttttat 180  
 gagttctaag gcaaggactg aatcctcagc atagaaagtc tgtg 224

<210> 28859  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 28859

tctagccaaa tggacttacc ttgaattaat ttctttgatt gccctttaga gccttggttc 60  
 cctttccttg ttttgaagct cactacaagc cttaagtga aaaccatgat atttccatat 120  
 ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180  
 cattggacaa cttgttttgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240  
 acattgtata ttggttaa at gttggacatg ctgaatgaaa tgttgtttct cacaggctaa 300  
 agagtaaaaa aaaaaaaaaa aaaaaaatcg aaaaaaaaaa ttcgaaaaaa gaaaaagaca 360  
 agcattaaag ttgagtgaat aagatcttaa atggcacaag actgatgaaa ctcttggttc 420

<210> 28860  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 28860  
 tgatcaacac ttgcacagt gtcgatgat catgggagat cctgaaaatc actcatgacg 60  
 gatcctccca agttgaagat gtccagattg caactgttgg ctacttaact cgggattctg 120  
 atgatgatcg aggaagaatg tattcatgac ttccacatga acattcttga aattgccaat 180  
 gcttgcaactg tcttgggaga gaagatgaca gatgaatagc tgggtgagaaa gatcctcata 240  
 tccttgcccta atagatttga catgacagtc actacactag aggatgcccc cgacatttgc 300  
 cacatgagag tagatgaact cattgattct cttcagacct ttgagctagg actctcggat 360  
 agggctg 367

<210> 28861  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28861

tcttacgtag cctctcttgg tgctcagaat atcccaataa cntatccctc ttattactag 60  
 ctattgtgaa ttctttagtt cctgaatgta caaccttaaa attgttgctc gttccctct 120  
 ttgctaaaac atcaagagct gtaactacgt cactaatcaa aggtctggta tcagcttcct 180  
 tctgaataca cattgctgca actgctatgg cttggtgtag accctatgtt gggtagttcc 240

ctttcatcaa tggatcagcc attgatgaaa atttccttct gtctctgaat acgggttggtg 300  
 ccttataaaa aaaaacatta tgaatgtcaa ttgctgaaca tttgtgcata ttattggtct 360  
 tagct 365

<210> 28862  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28862

tatttttagta agtttcaagt ttgtgggttaa gcttattatt tttgatataa gttctaattct 60  
 gatatgctta ttaaataaggc gcctaattaa actattttacc caaatgcacc atacatgtaa 120  
 ttgcacactg atattatttg cctatatttg atgttttagtg ttttcttaaa tatttttggtt 180  
 ccttggtgac ctttaaacad tgatatgcag agtaaaaatt gcatttttgt ttaatgtttc 240  
 aacaaaactc tgtttttttt ggggggtggg tgggggttg taaaatatat tgaagctcat 300  
 ttttaacatg gttccttacc attgaaccct gttaaacaag ctaagtgtag atgttgacaa 360  
 tttgttntga ttatatcang aaggctcatga ggaagctcac gaagagttgc ctaaaaaagt 420  
 taaaac 426

<210> 28863  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28863

aacctcattg tctctcacag tcttttagatt gggattcttc caatccttgn gtccggactc 60  
 tcagccactt atgatagccg ccgatgatcc cattactgct tcccctaagc tctctgtcct 120  
 ttcttcacgc cgcaccccat gccttgcgaa ctcttggag taccctcgcg ttgtggtcac 180  
 tgaaaccccg tgcgatgaaa ggcgtgatgc tttcgtctga tggcactcct ctcatgggac 240  
 atccttcgca tgaagataga atcctgattc ttccttcctt ctacgaggg aaccaattaa 300  
 cagacgcccc tccatgctag ccaagagttg gtcccaattc gcctttcctt tttcgacgca 360  
 tgagcgggtga ccttgaacg gatagacgtg cctaccttct tggag 405

<210> 28864  
 <211> 112  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28864

tcanaaggag ccataccaat actggcttgg tagctattgt tgtagtaaa ctcaatcaat 60  
 ggcaaacaat ccatccagct accttgttgc tctataatac acgcccgaag ta 112

<210> 28865  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <400> 28865

cttctactta tgtggcaggg cgggtttcct tcaactttctc tctttcacgc gagctctttt 60  
 cactgtcctt ccttctcgcg gtgcttcttt tcatgtccgc ttgagtgggc ttatagccta 120  
 aaccatattt cccacgattt ccttgcgttt ttatcaagct agttatgccg ccattgtctc 180  
 tgcctaaacc catcccggtt tcataaccgt tccccaacat aactcggggc atcattaccg 240  
 ccgcatcgga cagacaaagt tgcccaaaga cggagtccac ggaggaaatg ctaaccacct 300  
 caaaagactg gaaagcggct tctaacgatt cttctgcggc ttccacataa tgcattggagg 360  
 atgggcagct taccaagata tcttcctcgc ctgatacgat gaccaagtgc acctccacta 420  
 cgaatttc 428

<210> 28866  
 <211> 272  
 <212> DNA  
 <213> Glycine max  
 <400> 28866

tcttacgtag cctctcttgg cgctcagaat atcccattta cttgtgcttg ttattctaac 60  
 tatattgaat gctgtagtgc ccgattgtac atccgtaaaa ttgttgctcg atgccctgtt 120  
 tgctaaaaca tcaagagccg taactacgtc actgatgaaa ggcttggtat gaactaactc 180  
 ctgaatactc attgctgctt ctgctatggc ttggcgaata acctttgctg agtatctgcc 240  
 ttctcatcaa cggatcaacc tttgatgaaa at 272

<210> 28867  
 <211> 483  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28867

aacgcgcatt tgatgcgtcg atgnacgncc gncatagaat acacacgcac gcaaggagcc 60  
 atgccaacac aggacacgna ccgattttctt ttagaaaacc caaccgaggg ccagcaatac 120  
 atcctagcta ccaagggcca ccaaacacac gcccgaagta gatgcgcacg aggagaagag 180  
 ccgtaacgga cgaggcagca gatccatgga aataagcaga ccttcgccac atagaagacc 240  
 cctacgaatc acggtaagct gaccacaaag gcgcatgcgc accagaacga atgccctgta 300  
 caagactaaa taaggatcac tgccacgaca ctactaacac gatatacgac tacacaaacc 360  
 ttaacatgcc ataccttcaa tgaaaagaag aacaaatgag cacaaatgga gagtcaaaca 420  
 gccatgaccc acaccgcaac atgcccacga ctcagcaagg atgaacacaa gacgcacacc 480  
 gcn 483

<210> 28868  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 28868

tgtactagtc atatatatgt tacaaaacaa cgtttggttat tttgaatcga ttattgcaga 60  
 tacagaaata cttaaacaaa cctgccaaatt aggggttttg cggctttttg caaattccgc 120  
 ccatgtttct ggatcaaggc catacttgac tgtaggatca gatatttgct gaccttcatt 180  
 gtcagcaaag acaaatTTTT aagtcaatga agacttaaat tgccctccatc ttgctgcaac 240  
 tgttgacatc acctTTTTTT ttgcattttc accttcaggg atatcaaatt tgcgctacac 300  
 aacaaaagga gttatgtaac agtatgtaaa tgaatccttt aaaagtaact taacaacaaa 360  
 atcatgaata catgtgtgaa ttacttacca aaatatcttt ccatattaag ctctttagat 420  
 c 421

<210> 28869

<211> 419  
 <212> DNA  
 <213> Glycine max

<400> 28869

tccgaaagtg tatagtaaaa ctatgaagac attcttattt gcattgcaat atttttcttg 60  
 gtttaatttt tatattcacg ggataataac aagaaacata tagaagggtt aaaataattt 120  
 tctgaacgta aactgagcta ggcagctcta cacggctgtt tctctacttg ctgctcgtc 180  
 taagcttctg aggagtgaag caatattttg acatagtaat atgaatatga catggttact 240  
 ttccaaagaa agtggggccac aagggaacat ggttcaaaga atatcacaag atcctgctat 300  
 gtttaatacaa attcatttca atcattaaca cccggacaga attactagaa acagtctaca 360  
 ttgtaactga aaaaagaaaa aaccactgtt gcggagtcaa caaaatatgg agtctcaat 419

<210> 28870  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28870

tatatgcatg tncgtttttg ttttaagccg caccaatttt gtatatgaac atgcnatgtn 60  
 ggagagccat acggcacaag gcattttcag ttgcgtatat atatcatgcy atgtgttatt 120  
 tcgatatctt gcgttctagc attctggcct taaaatgcaa aaaaattact agtgctttca 180  
 taattaaatt aatagaagat ttttaaataa attacaataa agttattcgc taaaattagg 240  
 tcttaattcc atgtatggcg ataggtcatt atagtgtgta cttacatgcy ccttgattat 300  
 tatattaact tgatcatata tgaatgggta tggataagag tagaatgaaa cgaataacac 360  
 gttttcttat tactctaact ctaacttgac ttttctcaat 400

<210> 28871  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 28871

aactataaaa ctcagcttgt tgctggcgga ttctgtaat tacgtaatgt tggtcggact 60  
 ctggtacatt atgaagggat tcttactcgc tattggtgct tcttggtctt atgagctgct 120



gaagattatt caactaaatt aagtgccttat taaataagcg tttgtataag atatgtttct 180  
atgattgaag atgaaatata gttcaattgt tttcatagct gaaaactgta tttacaaaag 240  
gagtctattg aaataagctg aaaacatctt atggatatat cgcacatgat ttttattagg 300  
tctcccaaac aagtggtcac atcataagat aagtcccaat aagctgtaaa taacttattt 360  
gaagaacccc ttattggatt tttgtgttac tgtatttaag aatttggctt tgcgcgagga 420  
tgtgc 425

<210> 28872  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28872

gagttgccat cctcattnta caggccaacc agcaatccta tgatgcctta actctttaat 60  
ggtgaattag cacaataaag gacttcagca tactaaatgc tagtagtacc agttgcaaca 120  
atcacaaatt gcataaacat atatgaaaaa actcaagtac attcttacac ctcaaaaagg 180  
caagaaggaa aagaacgcat atcaaagaaa tcttaagtta tggtaaattg cttagagaat 240  
atcctttata atgcatgaaa ctaaaaccag taattacagg aagagaaaag aacatactga 300  
tccataccac agagcatgat agacagttcc acaagaacct gcaatttaga ataggaaaca 360  
agttacaagg cataaaatgc ataacaacca ctgctaaca gatatttggg tttaaaagca 420  
taggtttagt aaattat 437

<210> 28873  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28873

agaatcggac ctcaagtgtga aaagttatga ccatcncctt ttctcgagag cgttcgttga 60  
tcaatgtcga gcatctcgac atgttatgcg ctcaaatcgg acatccgtgt gaagagggtat 120  
gaccatttga gtttctcgag agcttccatg gatcaatttc gagcatatgg tcctattatg 180  
tgcccgaatc tgaccttcgt gtgagaagtt atgaccattt gaatttctca agagcttgcg 240

ctgtttaatt tcgagcgtct caatatattg taagcgtgaa tcggagctca gtgtgaaaag 300  
 ttatgaccat tagaatttct ccaaagctta cttggttcaa tttcgagcat ctagacatat 360  
 tatgtgcacg aatctgtcct tcgagtgcaca agttatgacc atttgaattt atcgagagct 420  
 tacgctg 427

<210> 28874  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28874

ctaagctatc cttatggcta gctccgactt actcccctgt cctctataag atgtaagcca 60  
 agcccctact ttcgaggggc agctcccacc ttatgacgac tatcccgggc aagacgatga 120  
 ggaatgagat acccatctcg gtcccctgct ccacctcaaa gatctgtccc cccatgaact 180  
 accccaacca aacatagtcc gccatatccc gacttcaccc acactcgtaa aagaatctgt 240  
 tcccttcgtg gaagataaag gaaagattga ggtgcttgaa gagagggtga gagcagtcga 300  
 gggcctcggc aattacccat tctcgatct agcggactta tgtctcgtac ccaatatcgt 360  
 cattcctccc aagttcaaag taccagactn tgataagtac aaagggatga catgttcgaa 420  
 atggcatctt 430

<210> 28875  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 28875

atttcacgtg acaacaaaat tgacatgtcc gggtgtacta aagtaggtga attgattgaa 60  
 aaatttgaat cataggcaga gttgtgtgaa cttatacatt tgcattctgg taagaccact 120  
 acagtgagat ggaacaacaa gccaaaaaga agaattggatc gaaacaagga aagaattcgt 180  
 tagttggtag gaatgccac ctctttgatg acaagtccga tggtaacgac attgccaaat 240  
 ctttcaacta acactatgtc taccatagtg cctactggta ctacaactta tgaaataccc 300  
 acaattatga ctactttggt cctctgacaa caactagatt tgggaatata tgatataatg 360

tatcaactat cttgacaact aattgaaata gtcataacta gtccgtggat aaataggtaa 420  
 ttaaatat 428

<210> 28876  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28876

gtgtagctcg acgaagtgc cggataggta ggttgctagc cctgcaagaa gaatactatg 60  
 aaatttgtgg attttgaaaa gaaagcatga aatcgggaca tggatgaacaa taactgggtt 120  
 ttgaacctca gcataaggct ttttattaca aaggagaagg aataaaaaaaaa tagcaaaaaa 180  
 tggaggagcc tacacgtatg tgcttggtca ttcttttatt atatgacata agattatcca 240  
 gttgggagac cttcttgtgt gatttggaaac ttaagtttca accttcgccc ttcgacaacc 300  
 atcaagttat tcaaatttgg agtttgcct ttttagtatt ttaaattaaa atttgatttc 360  
 ttttagttcc tcanattcaa taaaagttat gttagttttt cttgtaataa aaaaactgtt 420  
 acaaaatttg 430

<210> 28877  
 <211> 419  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28877

gctntgcgga tttggtcttc gccagtgaag ggatcgttgt ttgtccgaaa agagttatat 60  
 ttgatcatcc tactaggacg actgagaaaa ctggggcaaa tgaagagggg gagaaagagg 120  
 gagaaacca tgctatgact gccattccta tacggccaag tttcccaacca aaccaacaa 180  
 tgtcattact cagtcaataa caaacctcct cttaccac caccagttta tccacaaagg 240  
 tcatccctaa atcaaccaca aagcctgtct accgcacttc caatgacgaa gaccaccttt 300  
 agcacaaaacc aaaaaaacac caacaaaaag gaattttgca gcaaaaagcc tgtagggttc 360  
 accccanatt ccgttgtcat atgctaaact tgatcccata tccactcaat aattcaatg 419

<210> 28878

<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28878

tgcttggtgga gcttctatgg aggctggatc tttttgcttt aatgaggtcc tttaatggtg 60  
gttttctacc atggagatgc agtggaagac aaaggagaag aggtgaaagg aagcgccatc 120  
cactaaggaa taagccatgg aagaaggagc ttcaccacca agataagcct tggataagaa 180  
gcttggaag atgcttcaat ggaggaaaag aaagagggag agaaagagag gggggagcac 240  
gaaattgaag gaataaaaga gagagagaag tggaactttg aagtatgtct cacaagactc 300  
tcattcatca aagttacaac aagtgttaca catgcttcta tntatagact angtagcttc 360  
cttgagaagc tttcttaaga aaacttcctt gagaagcttc tttgagaaaa cttccttgag 420

<210> 28879  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28879

tatgattaaa tacgctaacc tcagcaaata ttgtcttttc ttaggtatgt tctttccttt 60  
ccgttttttca tattgatgat gaataaacat gaatttgata aattgttctt gtttgtgttt 120  
gatggagccc tgcaacactc taatggtggt gtagatttac ttatgcatag aaattaggaa 180  
aagaatagca ttggtcatga aaacatatct ataacgttta gaaattagaa tttgggtcca 240  
aaacaaaatt gaggactaga agactaataa ttatgccggt ttgttatcga tccttttggt 300  
tggaaaaagt catggctaataa aaaggaatca catggtgac tanatcaact acagatcata 360  
tatatcatgt atcanaatca tgaaaaatat atgcactgaa tactctcggt ggctgcagtt 420  
tacaatc 427

<210> 28880  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28880

tcaagcttca tgagagagtc atatatcaaa tngagagggt taatttttagc tatgctaaac 60  
tagccaacaa agggagaaaag aaggcagact tcgaaccccg atattgggtt tgggtgcaca 120  
tgacaaatga aaggtttccg gaacaaagga aatcaaagct tctaccatgg ggagatggac 180  
catttcaagt gcttgaaaga attaatgaca atgcttaca agttgagctg cccggtgagt 240  
ataatgttag ttccaccttc aatgtctctg atttatctct ttttgatgca gatggagaat 300  
ccgatttgag gacatatcct tctcaagatg gagagaatga tgaggacatg accaagagcc 360  
atggcaagga tccacttgaa ggacttgag gacctatga 399

<210> 28881  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28881

taggcctaata cttaactctt ttttaagagcc atcacttttt tatttagatt tggaccatac 60  
catgttntaa ggagttgagt agagtgtgag cggttaaact cttcctccat tctccccctt 120  
agttataact aaatacataa aagattgaaa agaaatctta tatgggttgt tagaagcttg 180  
caaagtatct tgttgaaagta cgatgaaaac attaaatctc aacagcattt cgtaatttg 240  
aagacattca ggattgtctt aatattctct ttttcaccgc agaaactaaa ttttattacg 300  
ttgaagagtg ccagcagtag ccctgcattg ttacggcatt tcaatatatt caatttgtgc 360  
aacaaaacat aatgtcattg gtaatatcca tagtattcaa caaataaatt tttaaag 417

<210> 28882  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28882

nttactagca tcaacagtat ccttagatta ttatnctca ttagaaactc tcgctgctct 60  
tgtaaaaata aatccttcta agcttcatgg aagtgcaaaa atgggttggt gtgggttcagt 120  
aaatagctat ctctgtccc tggcacaagg gtggggaagc aaggaggagg gcatgggttt 180  
gtactcttgt attatggcaa atgagaaagt ccaggatgaa gcaactgtgt tgtttccttc 240

tgatgctgag aatagtagtg accaatccaa ttactgcata ggttctactc tttattttga 300  
 attgcatgga cccattgctc anagcaagga accaattgta gatacagttt cctcctgttt 360  
 gagagttata cacataccgg atatgcattt a 391

<210> 28883  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28883

taagaacaga attgcctaaa tcatttccaa atatgtatgt gattacgaag catttcaaga 60  
 atcaagccta ggctattgtg caagcaatca atggggcaaa acacaccaaa atattatgat 120  
 aatggatggc tcaaattctc acaaaggtaa acttattact ttcaaattga gctttcaaaa 180  
 ctatcatgac atgtagagga aaaacaagga tttcaaata caaaatgtca agagactttt 240  
 attttcagaa caattatcca tttcttgaac atatcctata attcaaagaa aaatatgcaa 300  
 agttgtacat gcaaacagaa ttgacctaga atattaaact ataaacccaa caaaactaac 360  
 aaatttaaca caagcaaac taacaaaact agcaaaacca aaaccaaaga acactccnc 420  
 cccccccata c 431

<210> 28884  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <400> 28884

acgacgcgtg aataaggacg gttctactaa atttggtcgt aacaaatgac cggtggcatt 60  
 ttttgtaaat aacagtacac gaaccattca atacgaagac ggatttttc cgaaccggcg 120  
 tcatagattg ggcaagttta aaggtagccc gtgagccaca gccactgaag aagttaagct 180  
 tcaaatatgt gaagcttgct ctgatctca tctctcccat tcacctttca ctggtgcact 240  
 ctataactcc acgtcctat caatgctcct ctacggcatg ttcttgaatg cccccattgg 300  
 gaaaagaggt tctagtgtg ggggcctagg gttagggttt gtgagagatg ttggatgctc 360  
 catgcattga tgagtcttat cgcaagctgg tggaagccat tcgagcacag tgacgacgcc 420

gttaatgccg

430

<210> 28885  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28885

attaacctag tgtataagac aaggctttgt tcttgttgtc gcaatgttgc atgctcgtaa 60  
tattaagcac gcttcattcg tccatccagt agtagggaat tatgcttctc agaaagaatt 120  
gacgcataaa gatagccctg tctacaacta tatagtatat gtattgatcc atatcgtaat 180  
gaggggaccc atctctatat ataacagccg tggacatata tgttcttgac aagactagat 240  
gagaatagta cgtatacgcg ggcggagctg gtaccatcag gtatcgaagc gaaaggccaa 300  
gtatgattct ctatcaagga cccagaggat atcactgatg cctcttctaa acgcntgaca 360  
tgcgataatg gatctgtaat atctcatacc gactgatgaa cata 404

<210> 28886  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28886

ntntggctaa gtggctatctt acaatcaaaa catggccttc atcattctca gattcatgca 60  
ttcattccat aaattagaga ttcatgcaaa agtcattacc caatgtcagt cgtttctttc 120  
acaattaaga tcacactctc accgggttac gattaacgca ttccttcaca atcaatatga 180  
caaaccgact aacattttca gtcataatcc taatttcttg ttctttctct tttaatgact 240  
gcatgctttt tcaagacaaa agatctatgc attccacttc actcaattca tacaagtgct 300  
tcgttcaatt caatcaaaaa cattgaatat cacatcaaaa gtcaaaccac tgaataacat 360  
tcaatcatgc ttttcacaag ctacaaacaa ctataaacat act 403

<210> 28887  
<211> 432  
<212> DNA  
<213> Glycine max

<400> 28887

tgtttcactc acctcttgaa acacatagtc attcatgtgt tcttcgctta ttatttatct 60  
tctccattta ttgggtcaata agattttctt tgtttcttct ttcttctcaa acttatatga 120  
tctactaatt ctctatttct gagagagttt gtctataaag ttctaggaga agagaaattt 180  
ttacccttat acaatacaaa agtatacaat ttaagattag atcacatgag atgtattctc 240  
aatagatttg gctaataaaa tctttcttta tctttttctt ctttattatc tagattttatc 300  
taatttgaac ctacaccta attttatttt ctgtcaagat atatattaag ataaaacatc 360  
acaagattta aatcattcta gaatatcaca aattogaata taacacacat cttatccaaa 420  
ctagatatac at 432

<210> 28888

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28888

tcttcttggt tctctcccca tttgaaacca acatttttct tgagcacttc attgagaggt 60  
gctgccaatg tgctaaaatc cttcacaaat cgtctataaa aacttgctaa gccatgtgtc 120  
gcaacctacc cttcggcggg agggcgatgc gtgactcgcg ggatgcgtgt tccacgaaag 180  
gaatacgcg ggagtcgcca ctaatgttta tttgaggaaa acgtcgga aaaccgaaaa 240  
gaagcgatct acgaactttt aagtgaagg ctcgggagtt gtatttacgc gtggggaagg 300  
tattagcacc ccacacgtcc gtcacaagg acggcagcct ttaatcgaat gtgcaaacat 360  
gactttgatt tttacgttcc cttttatgtc cttatatact ttataccctn tntatanttt 420  
tttct 425

<210> 28889

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28889

actcagctgt cattggcgag caaataaaat ntttttcatg atagcatgga tagtattaag 60



aaagttgcaa ttgattcaga cagatgttgt agggcctcaa agaacacctt cattgaaagg 120  
 caatttgat tacactatat ttattgatga ctttttcttt aagttcaaatt caaaggtggc 180  
 tgaaattttt tggatgttca aagtcaagta gagaatgaaa gtgggtctcaa aattcaaatt 240  
 ttgaggtctg acaatggcat caagtacaca tctgcaaaat ttaatcaatt ttgggaggat 300  
 tctgacatcc aacatcaact tactaatcct tataccccac aacaagatgg ggtagtgag 360  
 aggagaaata aatatatctt ggagatgatg agatgcatgt tgtatg 406

<210> 28890  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<400> 28890

ttttatttca aaagattctc atgaaacttg tgacattggt catttagctt aacacaaacg 60  
 aaagccctat tctcttaatt cgagaagaag ccctaaaatt tttgagttga tgcctatgga 120  
 tatttgggga ccatttttta aatcatcaat tctgtggacat agatatattg taactatact 180  
 tgatgatgat agtacatata ctcgggcggc tttattaaaa tcaaaaagtg aagtgaaaac 240  
 acatgttcaa aactttatta atctgatcga aaatcaatcc gaagcaaaaa ttaaattgcat 300  
 tcgattcgat aa 312

<210> 28891  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 28891

tgctcttctc ctctgcaatg cctccacct tgtttactct ttcttttate tctatctgta 60  
 aatccttgta gcatctgaac aattcatcac aatccaacct ggtgcacaac aacttggcca 120  
 acacaccacc aactttggaa gacagttgac agttcaacct tacgacctca acaaaggcga 180  
 tgggtggtgt agccacctta tgacactcca ctctccaaac agtgtgagca gtaaccctcc 240  
 atttggcgat ctctgactcc atggacacca ccttgtgcaa accctcttgg tgctactgtc 300  
 cgttctctc tagaatttcc aaacttcttt ggagaaagac tttggtagag tccgtagcat 360  
 tttgtaccct aaccaaccga atcatatttt ttgtcaaagg ttgacacaaa gccatagt 418

<210> 28892  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 28892

tgtatataat tatcatttgt tttggcaa at aacttctttg tctgaacatt cttaacatta 60  
 gatagtgaat atatatcgac aagtgaatag aatgaaatct tattttaatt tgttatttaa 120  
 ttttaccttt ttcaataatt aaagcttata atcttctaac tcccgttttg tctttaaaat 180  
 gtatctttta aatttatgag ttttaataacc atttttagtat ataaaaattt acatgggtcaa 240  
 ttatcaatca attaaaagtc ataaaatcat tcttattata atttttaaaa taattatatt 300  
 ataaaaataa taaatttatc atatgagatg ctttgtcatt gatttgtgat tgaataatta 360  
 ggtgtgttat atttattcta acttatatat ggaatgctta tgcaagtata tttcatttaa 420  
 aaatg 425

<210> 28893  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28893

tggtgactct ntgagcatat ttttatcgta gaattttttg caatttattg gttctttatt 60  
 tgcacagaaa ctgcgtaatt aagctagaca atgaaagaca cgtgggaatg ggagatgtag 120  
 tgatgcgatg cctgcacgac tagcttgcaa acttgaagct gaatcaccat cacgcatcaa 180  
 aagttgaatc catcagccac accaagggtcc ttttccatag agtagaaata aatgaaatga 240  
 aagtgaatta agatgagata gtcttaaatt aaagtaaaat gtagaagtgt aaatttcatt 300  
 gtagtttatt atttatttct ctctntttat gtttttttca actcaaacia acgaacacta 360  
 aatcagtaaa aatattaata tatatatatn tttttataa ttttaattaat ata 413

<210> 28894  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 28894

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ggcccttttt ttttttaatt ttatcacgga tgaaaacctg ngcatatata tatatatata 120  
tatatatata tatatatata tatatatata tatatatata tatttcaggc ttccctttta 180  
cgcttttgat accgtatacc tcgttttaaaa taaaataaaa tactgtgcat ctttcttttc 240  
tattgaacaa aacacaatag aagcaagtca gaagcactcg aatgactctc ataccaaatg 300  
taaattaaat aggtattgat ctacacatac acatcaattt aaataacata tttagatcac 360  
acaacggaaa ttaaataatta cgagcgtacc tccagccatt gtacatcgaa cgcgaaan 417

<210> 28895

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28895

gtgaccccttg tttcactaat atcaaaatct ggctanccat ttaagtgtc ataaattcca 60  
taagggtaga agcctgatga accacggagc attatgaatc tgaaattgac catccacaaa 120  
tgttaatcct actgctatca gtaaaaaaag ctactagtgc tttaaatatt attctttgag 180  
caataatgga actgataaga ttgcaagtag aacttgtaat gaaaatgggg gggggggggg 240  
tgacaactag tncattcctg atcatgtgtg acatataaaa ccactcctaa tttgttagca 300  
gactctttta cgatgggtat atttctactc acgtgagact tcaaaaccac tcccagctta 360  
atcgcacact caaatcaggg aatgcattag aatatatatc tgttgagaaa ttattagact 420  
tgatggaacc g 431

<210> 28896

<211> 403

<212> DNA

<213> Glycine max

<400> 28896

gtggaattct tggaaattgg aatcatgata ttagtaagca gtccaatgga ctttagcta 60  
aatgctcaat acttgggttg ttcatggaag gaacatcaca ggttcaccca caaatatgta 120  
tagaatatgc acttgattcg taatttcaag tatggctatt atcatgtttt tacagttttg 180

aaaatgttat cattttgatg tcaaagtgtg aaagtgtttt taaaaacatt ttcaagactt 240  
 ttacactttg caccaacatc atctaacttg tatccattca actttttgtc aaaatcgaga 300  
 agaaataaaa ctaacaaaaa tcaagaggaa tggagtttat ttttcccatt tcagatccaa 360  
 tgcagaatat ttgtatgtaa aattttttct tgaacccaat agc 403

<210> 28897  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 28897

ttacctatac ttaatagaac atacttatac ctctacataa taacctgtgt tgggctgagt 60  
 gtgatacact ttacacgtgt tttatacgca ggagctagtt gtattcaccg actaacaact 120  
 gccccaaatt tatagttttg ctagtcctca tgcccctata gaccagctcg ctagtcctca 180  
 cgtgaccctg acatgcaacg actatgtaca aaggagcatg caacaaaagt tactgattgc 240  
 atgataggag aatggagtaa agatccctaa tcacttgtct tgcacaacgt atgcaatcat 300  
 ccacagagaa gaatagtatg cactctgaac gattagatgg agctgatca 349

<210> 28898  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<400> 28898

ctcagcttga ggatatgggg acccatcaca tgtggactat gtgtttgtcg ggcgatggtg 60  
 cacaacaagt tttccacat ccacaatgcg cgcataaacc caccatcccc tgttgccac 120  
 ctccaactga gctcacgtac tcccacgtag cccatatact cgtttctctc aacaccgggt 180  
 ccccatcaat cctcccaagc ttccacaaca tccaagcaaa acaacattca aacaacacaa 240  
 gctatcacag ccaagcaaaa cagaacaaag acagaaaact ctgctcaaca catcaaccaa 300  
 aatcacagct tttctcactt aaagaccaca gtaacaattc cttcgatcca attcataac 360  
 cgttggatcg actccaaaat tttactggga gtctatagtg cataagccta catttggacc 420  
 gttgggatct actggcaaa 439

<210> 28899  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 28899

actcagcttc taattttggg attgatgctc ttaaactggt ggtatatatt aaactgagtt 60  
 ccaaccaagg ctgtctcaaa gacacctttt gagttattca agggttggaa accaagtttg 120  
 cgacatatac gcgtataggg atgcccgtct gaagtaagaa tttataatcc acaagagaag 180  
 aaactagacc ctaggactat tactgggtat ttcattggat atcctaaaag gtttaaaggg 240  
 tataggttct attgtccatc ccacaacact aggattgtgg aatcaaggaa tgcaaagttt 300  
 catgaaaatg acttgatcag tgggagtgat caatttcaga acatttcttc tgaaagggat 360  
 cactatgaag ctgaaccttc tgggacaagt aataggttgg tagtcattct caccctcaa 420  
 gttaaatg 429

<210> 28900  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28900

ntgtatctta ttcttgcata ttatctataa attctttgaa ctgtaacatt ttaatttttc 60  
 gtaaataaat ttaaaaagct ttttagtcaa aaataaataa ataaataaat atagaacaaa 120  
 taatagactg agtaccctag gtataaatag ttatgttaag tcagctgtct catttttagt 180  
 ctcatcttcg tttttcccat tctcctctca aaatcctttc tttttcccgt agccaccaa 240  
 acctgtctca gaaaaacgac gatctcgaac ccgttcaccg ttggatcgtc gtgaaatttt 300  
 attatcatgt tcgcaaccca attccgaaca ttctcaccgt tgggaatttc aaaatcatat 360  
 ctgagcttat aggagaaccc ttgcattgt agcattttta tttccgcag aaaccaaaaa 420  
 ctgtctc 427

<210> 28901  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 28901

gacctataaa actcagctgt atcatcacaca catctgaatc gatatcggtt agtttttcag 60  
anaacattct caacagtcac atctttttgt gtggttcttg aatggctatc ataggcctat 120  
atatatgtga cttgagacac gaatttgaca agagtttttc agagcaaaaa ggtcttatcc 180  
tcttataaag agaaatcggt ttatcctctt acaaattcct tggccaaatt acttgtgatt 240  
caataaggaa ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct 300  
tcttttcttc ttcttcattt tgaaaaggga ttaagagacc gaggggtctct tgttgtgaaa 360  
taattctaaa cacaaaggaa ggggtgtcct tgtgtgttta gaacttgga aaggaatgta 420  
taagatagtg gaactct 437

<210> 28902  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28902

ttccattctc ttggaagttc atcattggat ttttcttctt ctggaggatc tttattgttt 60  
cctttatcat ttcttttga atcttgttca tgaatattca tatgttctaa agaatctgca 120  
atatcatcta gcatattctt tcttgacaag atagcattag attcatcaaa ggtaacatga 180  
atggattcct cgatattcat agttctttta ttatatatcc tatatgcttt gctttgtaat 240  
gaatatccaa gaaaaatacc ttcatcatat tttgcatcga attttcctag attatctcta 300  
ccattattaa gcacaaagca tttgcaacca aaaacatgta gatgagaaat attaggtttt 360  
ctaccattaa ataactcata tgggggtntc tttaanataa gtcttattaa ggcctattc 420  
atgatct 427

<210> 28903  
<211> 437  
<212> DNA  
<213> Glycine max

<400> 28903

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ctcaaggaag atttctcaaa gaagcttctc aaggaagttt tctaaagaaa gcttctcaag 120  
gaagctacct agtctataaa tagaagcatg tgtaacactt gttgtaactt tgatgaatga 180  
gagtcttggtg agacacaact caaagttcaa cttctctccc tttttcttcc ttcaatttcg 240  
tgctcccccc tctctcttcc tctccctctt tcttttcctc cattgaagca tctctctcaa 300  
gcttcttate caaggctcat cttgggtggtg aagctccttc ttccaaggct tattccctag 360  
tggatggcgc ctctctctc ctcttctcct ttgtcttccg cttcatctcc atgggtgaaaa 420  
atcaccatca aaggacc 437

<210> 28904  
<211> 416  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28904

tcaacaacat tctttcttct cttcaagtct tcaattttaa tcagtgatct tcacctttct 60  
ctctgcctca tctcccttta attcaggttg gttaacttaa attcttctga attattgctc 120  
agttagtaac agaattaagg tgcaacaaga gtaggggaga taattttcat gccgctccaa 180  
acattgataa tttctttgtg acattcattg aggtgctatg tgatagacc cctgggtcatg 240  
attgggaaac tagatatgct tgctgagcaa acaaaacatt ggagatgtta agacaaagta 300  
catgggagtt cttagagtat gaatgctctt gcctcttgct caaggaggaa aatgcttttcg 360  
aggcanagaa tgcatttcaa caagagtaaa taacttttct ctcttgagaa atattt 416

<210> 28905  
<211> 408  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28905

tgtaggatta tggggtatcc atcacatgtg gtactatttg gcagtcgggc gatggtgcac 60  
aacaagtttt ccacatccac aaagcgcgca taaaccacc atccccgtt gccacctcc 120  
aactgagctc acgtactccc acgtagccca taacctcgtt tctctcaaca ccgggtcccc 180  
atcaatcctc ccaagcttcc ccaacatcaa agtaaatcaa cattcaaaca gcacaaatta 240

ccacagccaa gataacaggg caaaggcaga aaactctgcc caaaacacca accaaaatca 300  
 cagcttttct cacttaaaga ccccagtaac aattccttcg atccaattcg ttaaccggtg 360  
 gatcgactcc aaaattntac tggaagtcta tagtacataa gcctacat 408

<210> 28906  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 28906

aagctaccta gtctataaat agaaacatgg gttactctcg ctggaacttt gatgaaggag 60  
 agtctcgtga gacatacttc acagccccac ttctctccct actttattgc ttcaattccg 120  
 tgctcccccc tctctcttct tctgctcttt tcttttcttc cattgaagca tctttccaag 180  
 cttcttatcc aaggctcctc ttggtggtga agctccttct tccatggctt attcctact 240  
 ggatggcgcc tctctcacc tcttctcctt tgtcttcgc tgcattcca tgggtggaaaa 300  
 tcaccattaa gggacctcat tgaagctcag agatccatcc tccatagaag cccacaagc 360  
 aagcttgcac catcccggtt cagattctat acaacgatta atacagaacg ttgcattaa 420  
 tcg 423

<210> 28907  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28907

cttgtagtgg aattcttggg aatttgaatc atgatattag tttgcagtcc aatggacctt 60  
 tagctaaatg ctcaatactt gggttgttca tggaaggaaac atcacagggt caccacaaa 120  
 tatgtataga atatgcactt gattcgtaat ttcaagtatg gctattatca tgtttttaca 180  
 gttttgaaaa tggtatcatt ttgatgtcaa agtgtaaaag tgttttttaa aacattttca 240  
 agacttttac actttgcacc aacatcatct aacttgtatc cattcaactt tttgtcaaaa 300  
 tcgagaagaa ataaaactaa caaaaatcaa gaggaatgga gtttattttt cccatttcaa 360  
 atccaatgca gaaaatttgt atgtaaaatt ttttcttgaa cccaatagca tntaatttgg 420  
 ttaatatattc taca 434



<210> 28908  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<400> 28908

tactacgctt gctatttata gagaaaacat ttataattgc ctatattgat taaatctata 60  
 acgttatcga ttatttcaat gaagtaattg attatattat ttaagtaatc gattacagtg 120  
 ttcatccaac atctagaaaa cacctcaaga ataatgtaat tgattagatg acctatgtaa 180  
 tcaattaaag tgttcttggt cacctctgaa caacttaaat gagagagaag taatcaatta 240  
 atccacttgg taattgatta aagcagagac tccaaaaaaa aaatcaatca ttgtgtcaaa 300  
 caatagtgtc gcaatctacc cttcggcggt cgtgcgaata ggccaaaata gatgggccga 360  
 agcatttgtc tccaagggag ataatgagcg gagtgccac caacgtttat tcgaggacaa 420  
 agttagtgtc gcaacctac 439

<210> 28909  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 28909

gcgagtttga cacgctcagc ccaaggcatt tgatattttc atattcttgt tgcaatgact 60  
 tctctgattt agaatagggc ttaacatgcc tgtctcgcta agcacattaa ggttacagtg 120  
 gtccaacctg gtgagctctt actggcggtc atcttgttta atgagtcacg ctaagcgagc 180  
 catgctcgct aagcgcaatg agctctctat tagagaataa cgcttaacga gccatgctct 240  
 cttatccatt gaggtatttc aactgagcga aggtgactgc cttagaccaa gtgtttatca 300  
 ttagttgaca cgctaagcgc cttctgatgt tttctgaacg cgcgcaaagc 350

<210> 28910  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 28910

tataaaacta agctattatt ggaacattac acccaaattt aatttgattc ttactatata 60

ttaataacaa aacaatacag ttttttttta aaaacaaaac gtaacttttt gagtgacatg 120  
 tcttcaacga caaaatacac aaaaattaaa aacttgaata ataaaattta caaaataata 180  
 aaagtttcct aataaaatat ggaattaaac cttccatcaa tttcttagaa actagagtca 240  
 tatagttgtc atggatgaca ttcagagtcc tataactaat attaataata taagaaacta 300  
 agaaaataaa ctttatatat gtaataataa caatagttta aattaataat taacctagta 360  
 agcacaagtg aaaggatcga agacaaagtg attggcgcca tctcggggta gcgtagtaca 420  
 gctcttatgg aattatct 438

<210> 28911  
 <211> 326  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28911

catcangcat catcaagagg aagggagaag aaacaccgct aangcaggaa agnnccgcca 60  
 gaaggcaaaa ctctctatct taatcaatta caaccttacc gtaatcgatt acacaagttg 120  
 ttcgaagctt gtagagttat gtctcgatt gtgtcaatcg attatagcct tatcgtaatc 180  
 aattacacag ttgtttttaa gataatgatt gatttattta ggagtctcta ctttaattga 240  
 ttaccatgtg ttataatcga ttacttctct ttctataagt gtacaaaaag tgaacaacaa 300  
 tactcttacc gattacattg ttcttg 326

<210> 28912  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28912

aactcaagct ttagggtac atttacaacc atacattggc tnngatcact atgaggaaat 60  
 tctcacaaaa aattgaatta gtgagacatg gagttacaag atttgctacc actttcttaa 120  
 ctttgcaaag attgcataag caaaaggcca atcttataag gatgtttact tcagatgaat 180  
 ggttgaagtc taaggcagct aaagagccca aggggaagca agcaacagat gttgctctta 240  
 tgccatcatt ttggaatgat gttgtctatg ctttaaaggc tatagggcct cttgtaagt 300

tggtgaggtt ggtggataat gaacaaaaac ctgcaatggg tttcatttat gaagcaatgg 360  
atagggccaa agaagcaatt catagagctg tcaataacaa tg 402

<210> 28913  
<211> 432  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 28913

gtggttatgtg tgcattntag ctatggtttc atttggttat tttcaaactc atttaaagag 60  
gacttgcaaa gtaaataact ggttgaaact ttatttttca atgggtaacc gaggttacag 120  
cataaacgat tgattgaatt tttattttta attcattaag gtagattacg acacaattaa 180  
tcggtggaaa ctgcgtttac aatgataaaa gggagattac ggtacaatta atcagtcaaa 240  
acttgcttta caatgaaata aaattactga tggaagaaga atgaagatga agatgtgaaa 300  
agcaagagtg gaccactaag ggtgcataaa atgaattcaa aacttcaaaa ataaaaacta 360  
accggtcgat caacgaagaa cggatgaagaa cggacgaaga acgatcatgg aaacgttatt 420  
gaaacgttac cg 432

<210> 28914  
<211> 427  
<212> DNA  
<213> Glycine max  
  
<400> 28914

tttgccggta tgattatgat attcaataca aatttggttc ttcaaattgc atttttgatg 60  
ccctctagag acttgatcat gtaatgagag gtgaatgttt catcctgtcc attcctcact 120  
tcattttcct caaagaattg aaacgtgcct tgcattccag tccaattttc aaatcataat 180  
ggatgtcact tcagcaggat ttgactagct acccaaattt ctagattaaa gatggcttta 240  
ttttcttcaa gggagctctt tgggtgaacc ccgacaaccc tttcatctcg gccttactta 300  
caaaatttta ctatactctc attggtgacc atttgggcat caaaaagaac cttcatcgtc 360  
tttagtcaaa tttcttctgg aacaccatga cctatgatgt taaagaattc atctgacact 420  
ctaacac 427

<210> 28915  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 28915

ttacgatttc aaactccaca aataagagat gctttattat aattaggtga atttaaatgat 60  
 ggtcttaaaa taaaaagcga agcggattgt ttagcaactt atgaacttga aaattttgag 120  
 tttttattaa gtatgactat ttggtatgac atattatttg ctgtaaactc cattagtaaa 180  
 aagttacaat caaaagatat gagtatggat gccactatag aacaattaaa aggtcttatt 240  
 ttatttttatt ttgaaaaat atagagaagg tgaatttgaa aatactataa tttatgccat 300  
 agaaattgtt aatgaaatgg agatagaacc taagtttcat gaaaaaacat gtagtttgta 360  
 gaaaaaaaac aatatgatag aaatattgat aatgaagttg aaaatcgcct aaagaat 417

<210> 28916  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28916

tgacactatg aaactcagct tatataagta attgttatgt ntcttaaatt gtttttgtat 60  
 gtttggtttt ggtaagctta cccttggtg tggcacatga ggttggtgaca gtgatgatct 120  
 taaactttgt atttggtgaga gtagctagtt tggaggttga tcattttccat ggagacatca 180  
 tggatgggca agcttgata tgaaaatgca atccttcttg tgttgctctt cgttactttt 240  
 atttatattg ctgattgact tagatttttag gtagtttatc tttacaaagt tgtttatgct 300  
 tatatgtagg ttttgaggaa atttgagtta ttatgggtga gtgcgtgtgt gtctatatat 360  
 atatatcatg tcatgtttta atttgagact gtgcatttta gcctttggga c 411

<210> 28917  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28917

tctaaattag tgtacctttc tattegcagc tccggccttg ctatcctgaa agaagtgtat 60  
 caacagcttt tcatcttttag agtggggcgcc catcttacgg cagtacattt tgagatgggt 120  
 tttgggacaa gtcgtccctt tatacttgtc gaagtccggc actttgaact tcgggggaat 180  
 aacaacatcg ggtactaagc aaagatccgt catgtctgca aacggatagt ccccaaatacc 240  
 ttccacagcc ctcaatcttt cctcaaggag atcgagcttc ctccctttctt cagatgccgg 300  
 gggcgccct tccatggaca aaactattgg cgaagctgcg atgttgggtt gaggcaacgt 360  
 gcctggcgcc ggcccttcgg ggatcgngg atagaactcg acatcccttc gagcata 417

<210> 28918  
 <211> 425  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28918

gcacgtatcg gtcaagtgtg tggaccacgt tgtattcatt tgctcatcga taatgggtcc 60  
 agtttaaacy tgatgccccaa gagcactttg gagaaattac cattcaatgc ttcccaccta 120  
 aagccaagtt ccatgggtgt tcgtgccttc gaaggcaccg ggcgagaggt taaggagag 180  
 atcgacctcc ctgtacagat agaccctcac acctgtcaag ttaccttcca aataatggat 240  
 attaaccccc cttacagctg cctgttgggg cgcccgtgga tccactcggg gggagttgtt 300  
 ccctctacac tccacaaaaa gttgaaattc gtagtggaag ggcatctggt catcgtatca 360  
 ngcgaggaag acatcttggg aagctgcccc tctctatgc cttatgtgga ggccgcagag 420  
 gagtc 425

<210> 28919  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28919

tattcaatta tcaataaaaa tctataaaaa aaacttgtga atgngccac aaagacaatg 60  
 tgataagcaa ttatcactca actaatcact aatcatgcaa tttaattaaa acacattctc 120  
 ttatttaaat aaataactcc aaattatata acaaaatcat ataacttttg agttgcaatt 180

tttggggtgt tacgacctag gtctctagat tcttgatggt catacccgag taggtattcg 240  
 atcaacatac atacatgtac ctaagtccta ataagagatt taatagggtta atgtagattc 300  
 ccctaagatg tgaaaaagat gatggcactc ataaacaaaag agggagggggg ggggggggtga 360  
 attcctataa aanattaata tggaattaaa tt 392

<210> 28920  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28920

cggctgatta aaaaacacat aactaggagt ggaaatatat taaaagttcg attatatttg 60  
 ttgttgacaa atagagaata gaggatagta cacactaata ttacaataat aggaaaatgg 120  
 aataattcat gtaccaaata aatgataact catatttgat gtgaaaaata tgttacccaa 180  
 actgtcgagc ttgtaaatca acatatgata ttttaactta atcaagtga ttttaagtta 240  
 atataattgt gttaaatatt ttgataaaga attttgatag ttataatagt tataatgtga 300  
 tttttatata aaaataataa aaatcattag tcaatctggg taaagaaaga agacaagaca 360  
 tagaggttac aagtttaaatt tctccaaaac gaatatttca nacaaaactt ataataaatt 420  
 aacat 425

<210> 28921  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 28921

acatgaaaat tgaggaacca aaccaaattct atatgggaga ggcgtgagag ctaacgaagt 60  
 ttctctgcta cactttgaga tggaaattca attgcagcat ccgaagaagc acttgagagc 120  
 gagcacatca caaggaggcc aaggggagaag caacaaccac atgtcccaaa gcaagtatgt 180  
 tggggtgagg caaagagcat caggggaaatg gggtgctgag atcaaagaca caacacaaaa 240  
 gataagaatg tggcttggca catatgagac agcagaggaa gcagcaaggg cttatgatga 300  
 agctgcatgc ctcttctgtg gatccaacac tcgcaccaac ttcattcacac gtgtgttcct 360  
 tgattcccct ctgcttcgc ggatt 385

<210> 28922  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28922

tcttttanac tacacaaatt taattcctaa aggacttttt cttgacaaac ctatgaatgt 60  
 gcatatttat taatataatt caatcatttc atgcatgctt tcagttgtgt gtttagatca 120  
 atgttcccat ttaatagtct ttaaacttgc aaattttgta tcttgtctgt aggggtttgg 180  
 atcccctagc cactctcttc ttttactaa gtaatatgcc ttcaaattta tcagtgaat 240  
 cctaaaccat attcaatctg taatagttta atgtgtgtat atatgtgtgc aactctttta 300  
 ttactacctc tttgtttttg cctcttcacc tttcaacca tccatctaata gttgcatgta 360  
 ctctgcccta aattggatta tgcaatatga tatttatcta tgggtggatat tgatctggag 420  
 tctcttacct at 432

<210> 28923  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 28923

actcagctgc acatatgcat aaatatgaaa ttggggattt ttgcactact aagtgatgct 60  
 aagggtgtgta gaataaacct ttgtagttcg ataccatttg atagctcgat accatttgaa 120  
 aatcacaagt ttgccatcat gcttagcatc atgagtagct agacatcaaa aatactagaa 180  
 accccgtgag atcaacatta taagcaagggt tctaattttt catgataaac acaagtctag 240  
 ctatcatcct atgcatgcta gttatcatat catcattcaa gttctataac tagcatataa 300  
 cacacaagca tgcataattaa atataaaact tatgcaatgc aagcaagcac atgaatatgc 360  
 acatatcaaa tataacaaaa caatgttcat gagcttgctc tccctacttg tgtgcttctt 420  
 ttgtccaaga att 433

<210> 28924  
 <211> 429  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28924

tcccttgtga tgggatcaaa ccttgcactt gatacttgtg tttctcctgt gcgagggtgga 60  
caaattttgt ctttttacct atctgtatca tttcatttcc ctttctcttg gctcaaattgt 120  
gtgtcattgt cctgaattta tatatttatt tactagtcag acgctcagtt tagttacttt 180  
ctttgggtcaa gaggctaagc cctgttttaa atgcaactct agtttagatc aggccaacaa 240  
tgactaaagc taaatccaat aaatctcctt aacccttcaa agtattcatt ttgatccaca 300  
aattaaaatt taaaattact gaacacaaag tcccgaacag taactataaa agaattatcc 360  
ctataaaaat attattttgt gaattattat taattntttg gtataatcaa aatgtataat 420  
tccattccc 429

<210> 28925

<211> 353

<212> DNA

<213> Glycine max

<400> 28925

aattgaggaa cccaacaaa tctatatgtg tgagttgcga gaactaaggg aggttctctg 60  
ctacactttg agatggaaat tcaattcccg cattcaaaga aacacttggg agccagcaca 120  
tcaaaaggaa ggtaaggag aaacaacaac caccaaacca aaagccagta tgttggggtg 180  
aggcaaaaaa catcaggga atgggttgct gagatcaaag acacaacaca aaagataaga 240  
atgtggcttg gcacatatga gacagcagag gaagcagcca gggcttatga tgaaactgca 300  
tgccctcttc gtggatccaa cactcgcacc aacttcatca cacgtgtgtc cct 353

<210> 28926

<211> 426

<212> DNA

<213> Glycine max

<400> 28926

aggaatttgg acaaagacgc tagtatcatc gttcttttgt caaggttagc ttatgaactt 60  
ctccaacggt gataggacag tgcatttcta gtatcatcgt acaattgtca aggttagctt 120  
caattccccg gtgggtgatc atgaaacca agaattttct gcctctaacc ccaaagggtc 180



atttttcaag attgaggcgc atgttatact tgagaatctc tttgaacacc tctgccaaat 240  
 ttgccacatg tttggccatg ctatgagact tgacgaccat gtcattcaca tagacctega 300  
 cattttgtca tatctgttgt ttgaagaccc agtccataag cctttgttat atggctccta 360  
 cattctggaa gtcgggcgca ccatccataa gcttttcgat gatgggaaag ggatatgcat 420  
 ccttgg 426

<210> 28927  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 28927

tataataaga aagtgaagtc aaaaactttt aactctgtat atttagtttg gaaggttatc 60  
 ctgcccattg atagtaagga tcgagccttg ggcaaattg ccccaaattg ggaaggaccg 120  
 tttaaataa ttcagatcta ttcgaatggt gcttatgaat tagaggaatt aaccctcag 180  
 aaacgtactt tgagtataaa tggtaaatat ttgaaaaaat ataaaccaac attgctcgaa 240  
 gttaaataa gcatagaata gacagaagta atggaaacat aaaaatggcg ataacagtaa 300  
 aattgccacg aaagggcatg tgtcaatatt acatcaagag tagaatcgaa atacagaatt 360  
 cgaaataaaa aatcataagt tctactaatg catgactaag tcctcatata gtttcttca 419

<210> 28928  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28928

ntatgatcaa atntttttct ctctttntct ctcaacctgt tttcattctt cttcctcttt 60  
 tcacttctgt tcttccaatt tcttgcacaa aattttgtgc cttttccatt ggtgatgatc 120  
 atggaaggct aaacacttaa tcaatcaaag gatccactcc aagcaaggct aaatttgaat 180  
 ttttgtttag tattttctaatt ctttctgaat gttcatcttt ttcttcaatc ctatttttga 240  
 ttttcatgag tatgactatg cttatgatta taaatggatt acgctatcga ttcatttctt 300  
 aatttcgaaa tttaatcaga gattgtgtgg atgatcttcc aacctaatat gcgatctcta 360

acaattttaag gattgattcg attgaactat ctctaatagta ttagactg

408

<210> 28929  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28929

tatcccaatg ttgagaagtc tatctcaatc aaatctttgc ttacaaaagt taagggttgaa 60  
gcttctacac atgtggtaca tgaaaaacta agtgagatga aaatggataa caataatgca 120  
gatgataaaa tgcctagtgt tgaacctgtg aaatatgatg aacctctaatt ttagataggc 180  
ctgaaaatat aaatattgag aaagaaaacta gacaagacag gcaagaaaat gttgtgcaaa 240  
catttgaaaa tatagttgga accaagtcta gcaatgggtt ggccaggtaa gtctttgtat 300  
tcttatgcca tcttttcgtt gaaaaagtat aatttagttc attagttaaa taatactaca 360  
ttatatgtac tagtgtattg taaacatggt ccattgtact ttnaaaatta tttaata 417

<210> 28930  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28930

agttgtaatc aaccgttagt tagttatagt tagttgttgt tagttactta tatttttagtt 60  
ctacaaatac atgcaagtaa agcttctatc aattcagatc aaacaccttt gtgagttcta 120  
aatctctttt cctctttgtc aagctntctt caattcgtca ttatgaatca attcaatttc 180  
gttaacaatc cattccccgc aacaatatgc ttttgccctc ttatattcct cttccaacca 240  
acaacgttta tgactectaa tttttcaatg ttgttaataa ataaatgcaa attcctaaat 300  
gacgtttgca cacctcttcg atcttcgtga tcatcaatac tgattacaga taacgaggaa 360  
acacgacaac aactctcctt tgtcttttga agctccttct cattntcttt ntctcaccaa 420  
tctcaaatc 429

<210> 28931  
<211> 292  
<212> DNA

<213> Glycine max

<400> 28931

aagaggaagc atatcaagga gagaatgcaa attttcaatc cccgagaaag aaacgaagaa 60  
gaaaggaaat tccccatcta agagtgggag acagaatata gatatgaata gaaagaacac 120  
tcccaatcaa agaatgggag aaggaaaaaa agaagtataa tataagaaag ctccctgggtca 180  
aagaaactat aagacatgtg cacaaagggtc ttttgaccgg acgatatctg aacaatacag 240  
aattgtcacc acatgaacaa taaaagaacg aaaggaaacc accacctaaa at 292

<210> 28932

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28932

tcaatacaat gattaatgca gactatccac aagaatctct gtattgaatc tcaaacagga 60  
atctaagggt cactcatgat aaacattaac tatatgcaca acaatagtca ttaatcacat 120  
aaaacaacgt aaaaataatt gtaacataaa ccaagccaag aaaagtacat gtgataatgc 180  
tcagtatcaa tagtgtccaa caacgaatac cgtgaacgat gacgcaaaca acaaaatgat 240  
aagggtctgc gagcttatga tgcaacaaat aagggttcag tatgcttcta tagaaatgac 300  
tgacatatag ataagacaaa aacatcaaat tntccaatca taggaacctt tgaactagaa 360  
tggaataaac angttaataa gaacgtagcc aagtttctga gtgcagatcc aataacatga 420  
ttctgcatga gattatg 437

<210> 28933

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28933

acacaacaac acagaatcta ggtgtccaat actctctttt ttcaatgggt tttctaggtt 60  
tgaaaagtga aatttagaat gaggtaaatt tggagcaaac tctcacctca caccagtcca 120  
taacatctat ttagacttgt tcaaactgga ttacaccta aaatctcacc gaatcaaaat 180

ttgactcttc aacacctaataa tttgccctaa aaatggctct ttgttcactt tggtcattta 240  
 tttttctctc tagcacagtc caagctttct cataagtcct aaatgacatt tcaagctagt 300  
 attaactcac ttttaacctcc atttaccaca gaattcagac ttagccttcc aacctcana 360  
 gtctcactct ttttccactc ataacatcac attctcattn tctaacccta ggtagttct 420  
 acccttcgtc 430

<210> 28934  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28934

ntgtatttag gttggatggg tgggtaatta acttggtgat atagcaggaa cttattgtta 60  
 tgctttgtgt gagaatatat gtatcaaaaa caaatcattt ctgatgttgt atgaatggaa 120  
 aacattgatg tttcggaact aaacattggt tgtgtcaaca atgtagaac tgaagacgtg 180  
 gaagatgcct aatccctcaa aatgtcacag ttttgatgat aacgaaaata ttaaactttg 240  
 atggtcaatc taatgaggct tattaagtgt tacaggtttt ttttgcgtct aattatgata 300  
 ttggtattgt atttcttacc ttagatgcaa aatctattnt aattggacat atgctcaatg 360  
 taaccaaag atggattcag tccaatattt tctcaagtta gacttagaat ataccgttct 420  
 ata 423

<210> 28935  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28935

tgaatataat gaaacttgct aacttaacan agctaagttt cacttattnc tcttaaggtt 60  
 cttcatcca ttaaagttga tagcgctaca catggccggt actgtgaaaa gagagatagt 120  
 gggaactcta aacacttttt gtagcatatc ttcatagaac tacaacttgc cagtgtcgtc 180  
 ttgcgctcaa agttgacttt tagtgtacaa atcaaata acgttaacag cataagacaa 240  
 aaggaattaa gaatattaag acaagacaat ttaaactctc cttttgtgc gttgtggcac 300

gagttgctta ttgaacctat ggacgtact ttctgatgat tgctttttgt acttaaggat 360  
 agagtaattg tticattgcc tttgtactat gagcgaagtg tcaaagcact tttcttctga 420  
 ggactggatg 430

<210> 28936  
 <211> 456  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28936

actcggttgt gctcgtgcag cggaccataa aactcagctt gaccaaacct actctcataa 60  
 cctgttctctg gtgagaatgc catccttacc ctccggagcca aaaaaagaaa gagaaggcaa 120  
 tttccatcaa gaggaagcat aaaaggagag aaagaaatth cccatcacca gaacgaaaag 180  
 aagacgaaag gaaattccca atctcagagt gggagaacga aaaaagaaca gaacagaaaag 240  
 aacactcccc atcaaagaat gggagaacga acaaatgatg caacaaagaa gaaagctcct 300  
 ggtcaaagaa actagaaaaa atgtgccgat agtcttttga ccggacgata tctgaacaat 360  
 acagaattgt caccaaataa acataaacag aaggaaagga aaccacgacc taaaatggtc 420  
 tgtctccttc taataccgac nncaaaccg tgccgc 456

<210> 28937  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28937

taatcccttg angactaacg gtaggagatt tgccctttat tcagctaagg actactttcc 60  
 ttagcaccct tatgttcaat atgtcggatt tgccctggag atttgccctg aattttctcc 120  
 tttgaaaact attttatttg gaaatccttc ccaagacacc attgaaccac tgatggaggc 180  
 tttggaggaa gattataacg atggacatga gataaatgac tcacggcagt ttattgaagg 240  
 agtattggat cttgaaaaga gaatcaatag actagatata tcgacagaaa ttaaatataa 300  
 caaatntgt cattgttgaa caaattatta gcttatagac caaatcttta ccatttgata 360  
 atatgtgtta cttatttctg atacgagcat aataaagtga catgaatgtt caaaaaatca 420

aactacaa

428

<210> 28938  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28938

ntgagctcaa tagctccaac ctcatctata ccccatattht agaatggcca aggtgctacc 60  
aagacgttca aaggtacggc cggagcattg acattatcgg tgaaggcctg gcacttgtgg 120  
cacttcctca catggatgca acaatagtht tccatagtga gccagtaata ccctaccctc 180  
agaatcttct aggccatggc atgcccgttg gcatgtgttc caaaggatcc ctcatgcact 240  
tctactagca tttgcttagc ctcttggca tttacacatt gaagcaaaac catatcatgg 300  
ttcatcttgt acaagatatt tccacttagg aaaaagcagg ctgcacaaac attactcagc 360  
tcagcaagaa caatttctta taatattcaa ccaatttaga atcaagaact caaca 415

<210> 28939  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28939

taatccctg aaaatggtgg gtatgagatt tgcctgtat tcagctaggg attactttcc 60  
ttagcaccct tatgttcaat atgttcgata aataaaaata gttttttttt ttttgctatg 120  
tgcattgagag tttaaagtct agttgtcaca caaatgtatt acacaaaagt acctatcaca 180  
taaagagtgg ctatgcaatt tagaatgcat caagaagtht tagatttgtt ggctacattc 240  
tttggaacca aaggcattgc atggaaaaat tactacatac ccatacctaa cggaattttc 300  
tatttaccgg cttgcctttt ttgagggaga tgtcaccaca tgttatgcan gatggtggaa 360  
gcagtcaata ttgcatcatc atcatgattt tgcaaagaat attactcagt gaa 413

<210> 28940  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28940

gtactagtca tatatatgtt acaaaacaac gaaagctttt tcgaatcgat tattgttgat 60  
acagaaatac ttaaacaac ctgccaatta ggggttttgc ggctttttgc aaattccgcc 120  
catgtttctg gatcaaggcc atacttgact gtaggatcag atatttgctg accttcattg 180  
tcagcaaaga caaatTTTga agtcaatgaa gacttaaatt gcctccatct tgctgcaact 240  
gttgacatca cttttttttt tgcattttca ctttcaggga tatcaaattt gcgctacaca 300  
acaaaaggag ttatgtaaca gtatgtaaat gaatccttta caagtaactt aacaacaaaa 360  
tcatgaatac aagtgtgaat tacttaccan aatatctttc catattaagc tctttagatc 420  
gtcg 424

<210> 28941  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28941

gtgcagtgtt catgtggcca aaagaagaaa gtgcgtgttt ttatatgggc tctaattttg 60  
tttttattcc ttcaatttag attatttttg tttcatcttc tanattttaaa ttattttttt 120  
taattttctca atttcaaaaa atatttttct taaaataaat ttaaatttaa aaagccaaat 180  
taaaagttac tcaaatttaa aagataaaaa atatatctaa atcttaaata tatcaatcgc 240  
aaattgattt tcaattatca tgattatttt tttcaaaata tgtgtaaatt taaattaata 300  
taatttttgt ttgtaaatgg atattacact attgattcat agagaatgtt gtttagaaac 360  
ttataatcaa aactaattnt aagtgcataa ttattcaaat gggttttaag aactatttan 420  
ataaaagttt 430

<210> 28942  
<211> 197  
<212> DNA  
<213> Glycine max

<400> 28942

gagtcatgac tccacgtca tgtatctgca agacactcct cgattcaaga ttcacgagca 60

gaattctaga tgcaacagag ccctactacg tatacgatat gtctctatac agtttaccat 120  
 ataccacatg tcacagttat gacatacata agagagactt cacatccaca gtgattactc 180  
 tctagaaatc gattgcc 197

<210> 28943  
 <211> 239  
 <212> DNA  
 <213> Glycine max

<400> 28943

cctgagtgccc caccatagcc gtgggtcagca ctttcaaacc agaatggatg gttgcagcac 60  
 ttgtttaatt ccaccacaat attcataaga gaaacctgat atttagcaga aaaagattag 120  
 tgatgatctt tgaagagaac cgaatctcga tacatgcatt atgacgttaa acttctccga 180  
 attttgccag accacatgat cataaacaga ggcaagattt cattataatg tcttctccc 239

<210> 28944  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28944

tgcttcaaag aggtccttta ttgacaaggc agccgaatga actagttccg ctccggagta 60  
 tgatagtcac cgcttttagga gtgctgtaca ccagcagcgc ttcgaggcca tcaagggatg 120  
 gtcgtttctc cgggagcgcgac gcgtccagct cagggacgac gagtatactg atttccagga 180  
 ggaaatagga cgccggcggt gggcatcact ggtcactccc atggccaagt ttgatccaga 240  
 agtagtcctt gagttttatg ccaatgcttg gccaacagag gagggcgtgc gtgacatgag 300  
 atcctgngta aggggtcagt ggatcccggt tgatgccgac gctatcggcc aactcctatg 360  
 atatccggtg gtgttggaag agggccagga atgtgagta 399

<210> 28945  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28945



tcgacatctt tntgtataag tcttgtgttc ctatctttcc ttttaattcc taaaattaat 60  
 tgtcttaagt ctttacaaaa cagagagcat ggggatcatc aaattggcat tattctttga 120  
 aaactcgaac aatacacact tggaggattc atgaggatat catttactat taattaattt 180  
 atactacatg gcttcgataa aaagaaaaaa aaaggaaata actttccac ggaagcaaaa 240  
 caatcaagca acctttgtca aagtttagct taagaaaagg acaaaaatga aaaatgttcg 300  
 gcgtgtggaa gtgagatggt ttgatccctc atctggttca gccagtaatt tatttaaagg 360  
 tagcaaatac ttactcatcc attgtaaatt attaacttga taaatgaaga aataaagggtg 420  
 ttaatc 426

<210> 28946  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28946

ggcacttctt cgctttcttc agggacttca gcttcnttcc cacttgggcc ttttagcttc 60  
 gggagccaat ttatcccttt tgcctagaa ttcaaccact tgtgatagtt gccggcgacg 120  
 ccattgctac ttcccctaag ttcttatct ttctttcta ttgtattcca cgcttttttg 180  
 attctctgaa gtatcctcgc attggcttca ctgaaacctc gcgcgacgaa aggtgcgatg 240  
 atctctcca acggtgcacc tcacataggg tagcctagtt gtcttatggc caacatggga 300  
 ttataattaa tacaaccctt cgttccctc gaggtgacgt atgggaatcc ttcacacaag 360  
 cacaacactc ctgcccctcc ttctttccat cgggggaacc agctattgga cgctcctacc 420  
 atacctgc 428

<210> 28947  
 <211> 247  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 28947

cgcgaagctt ctcttcatat ctgcctcagt gggcttatag cctaaaccat acttnccacg 60  
 aatttctttg gcatttatca ggcttggtat gtcaccgttg gctttgcca aaccattcc 120

gggatcgtaa ccgcttccca acataactcg ggccatcatt actggtgcat cggacaagcg 180  
aagcttgcca gaaaaggaat ccacggagga aatgcttacc acctcgaaaa actggaaagc 240  
ggtttct 247

<210> 28948  
<211> 414  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 28948

actcagcttt ataagagcgg gttcgggaga caaaggtcaa tttcttggtta tatgcaatt 60  
tttatttccg agtactctgg atttgggtacc accatgctct cctgatttcc agctgggaaa 120  
ttggcgagtg gaggaacgcc ccggcattta cgctacacgc ataatgtaaa cctttgcggt 180  
ttcaaaagct ctatagttgg gcttaggctg tagagatttt ccttttgcta aggctttgcg 240  
tcttttggtt ttgaatctat aacacaagga tctttcttca tctgttctg gtctctaccc 300  
attctcattc attngcatga ttacttctat ttctgaaacg gcagatccga tgacgagtc 360  
cccgaaagta ctaatacctg tgacccgcct atcgacttca agcaagacat gaat 414

<210> 28949  
<211> 413  
<212> DNA  
<213> Glycine max  
<400> 28949

ctcacctttg gtctcctta tttttgttgc atgagattac atgctctatt ttcattctcc 60  
actccaagta ggctccgga tcattctttc ctttaaaggg aggaatattg agtttaatac 120  
catcaatccg gttttgtcta ggaacaccat cattccctct tctctcctt tcttcttcat 180  
tatgatctct attctccatt tgatccaacc tctcatggag cgcacatct cgttgtttca 240  
ttaacctctc caaatgttgc atcaaagctt gcatttggaa ttgcgaaagc cccactccat 300  
cattaggatt tgttctgtc atctcaaaca aacaaatcaa acgtaacaag acaattatag 360  
ttgttggttg aatacctcac ccactcaagt gtatcacaca attatggctt ttc 413

<210> 28950  
<211> 404

<212> DNA  
<213> Glycine max

<223> unsure at all .n locations  
<400> 28950

tgcttgagaa gcttctatgg aggatggatc tttgaattta atgaggtcct tcaatggtga 60  
ttttcaacca tggagatgta gcgaaagata aaggagaaga ggtaagagga ggcaccatcc 120  
actatggaat cagccatgga aggaggagtt ttgtaacgcc cagaaatttt gataattgaa 180  
aatagatggt tgatgttttt cttgtgttat ttgattactt gattaatttg gatgagttaa 240  
ggtattatgt gaattatcca tgtgtgattt tcttgatgtg gatgttgagt tatgtggact 300  
tttattgact tangttgaaa ttatgagatt tcaagtttta cttanacctg ttccactaaa 360  
accacaatcc tgaattagtt aaccgttgga tcgctttcaa attt 404

<210> 28951  
<211> 273  
<212> DNA  
<213> Glycine max

<400> 28951

taacttgctt attgctgtga cttacagtct tcacggggct caccttatgt gtectactga 60  
ctgtgaagtc accctcactg gctgacagac ccgcagggtc agccatacag agatttgacg 120  
aacgccacca tgcttgctct acaatctcgc taagacgac catctatgat ggccgggtctg 180  
ttcactgcga ctgactattc cgccatgacg ctgagatttt atctctgtac agctctctct 240  
ggaactgcca gagtgacctc tgagacccac tga 273

<210> 28952  
<211> 173  
<212> DNA  
<213> Glycine max

<400> 28952

tcacatataa ctgaaagttt ccgtatcctg cagcatgcat catagtatct ggaatgccat 60  
cagaatttgt atggtgctac gtaaactctg atatcttctt aacttatcaa aatttaaagt 120  
ccgacctttt gacatcaaca aacacgacta cacgggtggag agatagatgg tga 173

<210> 28953

<211> 310  
 <212> DNA  
 <213> Glycine max

<400> 28953

agccgtaagg tttggtccgg cgacgccttt atcggctgac ccggcgcggc catcgatggg 60  
 cgcacccatg tggcctcggc cctggagcgc agtgccatgg cctgtctggt cgaagcgcac 120  
 ggtggcgaag ccttcaggta ttgacgcgag cacatcgcgg cgctgcccgg actcaaggcc 180  
 gacacggggc tgaacctcga ccactgtgtc cagcatccca gacaccagat cgacgtgctg 240  
 gccgtgaccg gtcccactag gaagaccacc accgcctggc ggctggaaca cgcgctggcc 300  
 aagggaagct 310

<210> 28954  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<400> 28954

gcattatgca tcacgtgag taaatgagaa gaaaaatttc taagttggaa aagtttcttc 60  
 agaaggaaaa actctatggt ttaatccatt atagccttat cacaatcaat tacacaaatt 120  
 atcttaagct tgcaaagtta tgtctcgtat cgatttaatc aatttcaacc ttctcataat 180  
 cgattacata attttttttg agtcaatgac tgattcattc acgagtctct gctgtaatcg 240  
 attaccatgt gatataatca attacttctt tttctataag tagttcacia gtgaacaaga 300  
 acactttaat tgattact 318

<210> 28955  
 <211> 240  
 <212> DNA  
 <213> Glycine max

<400> 28955

ccaagtacac actctatagt gcgactagtt cggtcaggct gaccatctgt ttcacgatga 60  
 tatgccgacc tatgcttccg ctctgtcccg agggctacat gtgaactatg acacaatcgc 120  
 taagggtacc ttggatccct gtctggagca ttactctacg gaattccatg catccttact 180  
 acttccttgg tgtaggactc cactaacttt acccttctat acgcgtgtat tcaactgagat 240

<210> 28956  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 28956

tataaataga agcatgtgta acacttattg taactttgat gaatgagagt cttgtgagac 60  
 acagctcaaa gttcaacttc tctccccctt ttcttccttc aatctcgtgc tccccctct 120  
 ctctttcttt tctccattg aagcatcacc tccaagcttc ttatccaagg cacatttttg 180  
 gtggcaaagc tccttcttcc atagcttatt ccctagtga tggcgctcc tctcacctct 240  
 ttctctttat cttccgctgc atctccatgg tggaaaatca ccattgaagg acctcattga 300  
 agctcataga ttccagccacc tcttctcctt tatcttccgc tgcattctca tgggtggaaaa 360  
 tcac 364

<210> 28957  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28957

cgcgcttac tcgtgcatac gngccatcaa ctctgacccg ggatactata tatcaacctg 60  
 caagcatgct agctatatct ttttattcca actatatcca ggtgggcgct atagctctac 120  
 atacacacca ttgccccgat cggcgggaaa gaccgtcaca tatgccgaga gcccaaagaa 180  
 acctcatctt catgagcacc gtgggaaaag cacatcttct ccagagagac atgcgctctt 240  
 aatacagaac ataggcgaca atatcactaa ccgactaaag aggatatgtg actcactgat 300  
 accctgagca ccacgcttct aacgcaatca ttgaaacaa acgcggggga agctcctaaa 360  
 cggctaaacc ttagcacctc gccgaggggt ttgatgactc gctgagctat agttggcagg 420  
 atcctcgcag ccgtcacaca tgctggcg 448

<210> 28958  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 28958

cttgattttc tcacggtgca cttggacccc atctctacca actacaaacc ctatgaaaac 60  
tatattatct acacaaaaag tacacttctc tatattatca tagcgggtgt atttcctaac 120  
gactaaaata acttgectga gatgtcctaa gtgatcatct atgctccaac tgtacactaa 180  
aatatcatca aaataaacia ctacgaatct acctacgaaa tcccttaaga catgatgcat 240  
aagcctcata taggtgctta gtgcattagt gagcacaaaa ggcactacta gccattcata 300  
caaaccaaac ttggtcttga aagcgggggt ccactcatca cccgttatca tactg 355

<210> 28959  
<211> 336  
<212> DNA  
<213> Glycine max

<400> 28959

tatccgaata gcatgaatca tgtacttagg atattgtgcy accatactct tctgctttac 60  
tcttgacaaa gctattatgc gagcaacccc tggggcttta cgcaccaagc gtttatgatg 120  
atgtgatacg gtcttattca cctctatgtt agagcctact ctctaaagga tctttcagac 180  
tatgctgaca tgcttatgat attgaatgta ttctacgtca gatcttgctt cgtacgttta 240  
tggtctctac ccatactcat tcttgaaca tctctataa ttcactgaaa accgtgcatt 300  
ctctgacgag caccocaaat gtaccatac ttgtga 336

<210> 28960  
<211> 369  
<212> DNA  
<213> Glycine max

<400> 28960

tcttctacac tccggagtga tcaccggtga tagcaagctc aacatctcca actttaacct 60  
ctttacggtg ctggaacaac taaaaaatat ctctocacc atggcctgca gcactatgac 120  
atacaccatt cggagatcct ctgtccgaat ggcaaatgat agccactgcc aaacatagat 180  
gtgctatgaa tctaaagtat caataatacg gataaaaaaa atctgttatt aatgattttg 240  
catgctagac cagaggatca gagtctcctt atcaggctca tactcaagtg aatcatgatg 300  
tcaaagagag caggggggaaa atacatctcc aactggcata gtataattgc gggctcatta 360  
tcaaactca 369

<210> 28961  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 28961

aactgcaaag caagttatga aggtagagca attagagaaa ctagcaaaac tggaagattg 60  
 gtgtaagcaa tttcttatta ttactttctt gataagggtg tgcattttgc cgatgttttt 120  
 aagtacatat ctttttttat actgaagaaa aaattaaaat ggtaaattag taatttcttt 180  
 atatttgtaa gtgtgggtca aagaccatgt cagcattaag aacaaacatg agcttttagct 240  
 tcatttgaaa agttacatta aaagctaccc aaactagagg aataactaac atttcagagt 300  
 ggcaatatac tcacaatatt ggatggatac ttgcaaccag ttatctagcc ttacagcta 360  
 acat 364

<210> 28962  
 <211> 180  
 <212> DNA  
 <213> Glycine max

<400> 28962

acacactctg accgtgaaac ccatttgacg cccgtgctaa ccccagggag atctgatcca 60  
 cccccaccct ctgttaccca acacaggtaa ctggactgct cattgtccat gagaaaccgg 120  
 tgcagtcctg ccatgaacgc ataacacacg ctatagagac accactcatg attaccccct 180

<210> 28963  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28963

acacgtgttt ccgaactctc tgacgatgat gcttattacg cactactata gatctttgtt 60  
 tgtgagagga gtagaaattt aaaaaaatgt gaaaggagca aggagtgtgt atacaatgta 120  
 cataggaatg ggacataaag tgacttggac gtcctaccgt gcgcacaaaa tcaatgcata 180  
 aacttcgacc tatgttaggg ggaggaatca ttaacaaaga ccataagaca gctctgctgt 240

tccttacata taagaataac catgtgatgg gattcaagcc aaaatttgtg aatagtgtta 300  
 tgtcngcaat aataaact ggctagtggc gactaactaa cggacgcaa gacaattcac 360  
 ga 362

<210> 28964  
 <211> 182  
 <212> DNA  
 <213> Glycine max

<400> 28964

cttttacgcg ctaggccgtg cttgcttctt gactttcatg aattgagtaa accacctatc 60  
 actactttgt ctacactggg aaattttcag atcatgaaat ccttcacgac atgtgcttta 120  
 ttggattcct tagagagagt atgaaaatat gggataccgt tgcaagagct atcaccttca 180  
 tg 182

<210> 28965  
 <211> 232  
 <212> DNA  
 <213> Glycine max

<400> 28965

catcctgatg caatgaatct atgcaatgcc tgtaattcga tatttttgat agatagtacc 60  
 tacattacac acaggtacct actttctata cttgactttg gtaccgtcac actaacatgt 120  
 ataacattct ctgctgggtt tccctattag gatggagaac gtctacataa tgttgtatga 180  
 accctacaat gattaccagg tctattactc aaacgtgacg ccctacctag ag 232

<210> 28966  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<400> 28966

ctcatctaac atacctgcgc agcttcctct caagactaca agacatgcta cgaacattct 60  
 ggcggggccc tcagagcatc gatgctatct gcacaaccac ttatactgat cacactgcct 120  
 tgtcttagat tcagggataa ttgttcagta tgcttcggga cacgcataca attcatacct 180  
 acagaagttc gtttcttaac tgataccgca tcttgccggat cacatagact actacttgca 240



tgataacgat atgttcatga acctcactaa gagtggaaacg atgctctcat gtgactg 297

<210> 28967  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 28967

atccaaagaa gaaaaaaaag gactcatctt atataccaca aggtgaagtt taacagctaa 60  
 gaactggaga caatatcacc tcaatatatt gttaattaaa agacatacat gagaaaccat 120  
 actaccatta tctagttttc tagcaccaac caataacttg agccactaga tccctaattg 180  
 atggcatcat attaccttgc tctattattg ataccaaact tcaatacaaa accataagtc 240  
 aagcaaacct tctttgatcc taaaggtatt tttgggttga aaattgtatg caagatcaat 300  
 ttaccagcaa gatcagctct aacattcttg ggatgatata aaattggatc agcaaatata 360  
 cagattgg 368

<210> 28968  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<400> 28968

gtttggagtt taaagcatgg acaacaccag gagaatggat catgatcatt gttcctacct 60  
 tgtcggtaaa tcaatggcaa tgctaattac atataggctt tctagttttt ctttgatcat 120  
 gagcaactac tcatcttagt ctagagggtta tgatgtaagt gtccaattgt acctctttct 180  
 ctgttcttaa tgaaattcct cagcattatt atgttaatta attctcttcc ttgttcttat 240  
 tgttcaatcg gaaactaatc aatcctattc ttaat 275

<210> 28969  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<400> 28969

aataggaaga agctgctcaa ttgttgcttc ctgcaatgaa gataaggtag aacagagatg 60  
 cacatttaca ccaaataaaa ctactactat cacaatggcc tagaaaatag attttgttga 120

ttatctttta ttggagaatg gagacagaag atacaaatct ctaggaaact aaagagacag 180

ggggagaaaag gctaaaaatt ggtgatacaa tattagttgc atcacaatct agtaaatca 240

atataagtgt tcatacacta ctacaaaaag ccctttttta gacacgtgct ttacgtcggg 300

tgta 304

<210> 28970

<211> 150

<212> DNA

<213> Glycine max

<400> 28970

ttcgtatgac tacttcttta gctatcgaaa agttacagaa actgacggac tgcatatcaa 60

tgctctctta tgattactgc catgttgacg atgccaccg actgtatatc agagcttgct 120

tatgatgccc gacaagtaac agagcttact 150

<210> 28971

<211> 365

<212> DNA

<213> Glycine max

<400> 28971

actttggatt tggtagcacc atgcctcctt gatttccagc tgggaaattg gcgagtggag 60

gaacgccccg gcatttacgc aacgagcata atgtaaacct ttactgcttt aaaagctcta 120

tagtcggggc taggctttat agtttttcca tttgttaagg ctttgtgtct tttgtttttg 180

aatttataat acaaggatct ttcttcatct gtccttggtc tctaccatt ctcattcatt 240

tgcatgtttg cttctttttc tgagactgca gatccgatga cgagtcccc gaaggtacta 300

atacctgaga cccgcctatc gacttcgagc gagaaatgaa tcagacggaa gatgaaggaa 360

gtgag 365

<210> 28972

<211> 323

<212> DNA

<213> Glycine max

<400> 28972

tctaatagaa aacgtctctc tggaatacgt atatattata ccaaaaagat atttctctaa 60

cagataaagg attaccaaag aatgtatctc ttttaagaaaa aatgatataa tgcgtaatta 120  
 aaatataaaa aggacaaatg ggggtatgaa tagcaagtgt tcaatataat ttctacccat 180  
 aatttattat taaaaaattg taccattat tctctctcct caacctttct tcttttttta 240  
 tatttgaaga attatttcac aaaaaataata atacatttca caaactaatt tcttaaatat 300  
 tactataatt ccaacgatga ata 323

<210> 28973  
 <211> 118  
 <212> DNA  
 <213> Glycine max

<400> 28973

caacaatgtg attcgaagat tagatcatat acctcacaca ggcaaccct tagataggag 60  
 ctatcatacc cacgtgacaa tcgcttacgc gagatatgac tttctgcca ttttacct 118

<210> 28974  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 28974

aacatcacia tcttaaaatg ctcaaacttt gaaatagtgg taaacaacia ttattgatgt 60  
 ggatttatat gtatgtgatt tcagggtcat tggagctatt ctcatagtaa tgggacttta 120  
 ctcagttctg tggggcaagc acaaggagaa caaagagaaa gaggcagaga taactattga 180  
 ggtattgaag tggtgttttag aaaatgggat gacgttgag actatggtaa aagatgtcga 240  
 aacaaacaat gacattgaca tgcaaaaggg tgaagcctca agagagttaa gggtagccat 300  
 tggtgttcca aaagtttaaa gtggttaaga ttagaaagga aagggatgaa taataatag 359

<210> 28975  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 28975

agtcctgcta atgtcgacct gcaagcgtgc tagctcgttt tatgagctcg actatgggag 60  
 gatgtgggag ccagcataac tctgattctt acagtcctta ttactgtacc gatgtacatg 120

gtatctctcc ttacgtatac ggacctagag gagctaataca ttctctgtat acaaggagat 180  
catctattga gaggacacct tgctgacagc tatgatcggt gtcactctta tgcaacgaat 240  
gacccttcct catgagaata ggacgggctg gccttcaaaa cccaaggaag ataagggtaa 300  
ggccatagag aaatacacc ctaagactag ttccaagaa aggactagca acattaaatg 360  
cttcaaagt cttgggagag gtcacattgc ctctcaatgc cccacacaga aaaccatgat 420  
catgaggggt caagaca 437

<210> 28976  
<211> 336  
<212> DNA  
<213> Glycine max  
<400> 28976

ggttctgcct aggcattgca tcgaaactac ttccttgatc ttgacttatg cttggatgac 60  
gattgtatcc ttgattgctg tatatgtggt agatcccttg ccattgggtg ttgatgtatt 120  
gaacttctcc ttgattgttg tagcattgac aatcatgttc tcaattatct gtatagcctc 180  
tcttggaaac ttgagagaga ttttcccagc agctaaagca tcaagcataa gcttgctcag 240  
agctttcaat cctctagaa acatgttgat ttggagagct tcatcaaac cagtgaagat 300  
tttcctaaga gaacctctaa atctttccca agcttt 336

<210> 28977  
<211> 235  
<212> DNA  
<213> Glycine max  
<400> 28977

gctatgattt ttactacgcc tgcgatctct tgtgctggcc ttctgaagca ctgaacctat 60  
ctactgtgag aagctagata tatctgagag agagcccca cataataaac aggtacaacg 120  
tttcgttact tgaccacttt agtgtcacac ctccatggat accattacta tgcgcttttc 180  
tactaccagc atggatagcc acatgatcaa cgtatgaagg accctctaata gattc 235

<210> 28978  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 28978

ggatcgaaat ctctctgttt caatgtcaat cttccttctt ttatgctgag gacaagaatg 60  
ttccacatca taagtgaaac ttttggggga aattctgaaa atctggaaat cagttgaaaa 120  
gctggtaatt ttccatcac tgtgcaatgt cttatgcaac acctcaccat ctttacacaa 180  
ggtaatgcta ttggggggct gttgtgcaa accaacatta acatcatcca taggagcaga 240  
aatgggaac ccaatagtga aatttgtaac actttcatct gaggatttat gcagatcatt 300  
tcccataact gttcagaag ataaatttgc caacttagta ctacattcaa cattgtctag 360  
tttact 366

<210> 28979

<211> 262

<212> DNA

<213> Glycine max

<400> 28979

actgcagctc tcgtgacgag agtagagcaa tatgactacc tagaacatct gttacatggc 60  
tgccagcaac atcttatcat tactttcttg acaaaggctc gcattttcac catgatcgca 120  
ttaacatatc gtgagttcta ctcaagagag aattcaactg ctaagacagt aattacctta 180  
tatttgtccc cgtggaattc atcaccatct cttgcattct tatcctgcat aagctgtagc 240  
tccttttagct tggattcatt at 262

<210> 28980

<211> 278

<212> DNA

<213> Glycine max

<400> 28980

agacgctcgt tattgagcta cggctgctct cgagaggatc gaatggatcat tagttgtgga 60  
acgaatgtgc tatgagggga cgtgactcgt ctatacgtc gaaattgagc gacggatgct 120  
ctctagaggt gcgaatggtc ataggtatca acacggatgt ccgatacgtg gacgtagtag 180  
atcgggacgc tcgaaatgga acagcggaag ctctggagac tatggaatgg taataacatt 240  
ccactatgat gttcgacttg ggaacgtaat atatctag 278

<210> 28981

<211> 590  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28981

ccgccgcttg gattttgatg tcgcatgact attgtacagn gacacatata cgaatctctg 60  
 anagcctcgg tgcatgccgt ctagcagtno gatcgctgtc agcgagtggt catgagctat 120  
 agacatattt tcttcacttg gngactcata ctggcacatg aagctgagca cagaccatca 180  
 ctactgaccg acacgtaggt ctcatataaa cagacacatt acataattat cacactctat 240  
 gcactcgtag atgagcgtag atatgactac tctataaact agatgcatat tagtgagaca 300  
 ctcgatgca gcgtagcaca tgtgtatctg atataatacg gaacactact agagacttcg 360  
 aactgtcctc ctcttgaca cggaaccaag agctactctc cttccgatgt ccttgggatg 420  
 aatcaggact aagaccatga gaccgctctt gtgttactta tatatgaccg gatcccttga 480  
 cttggatgac actcctatgt gccaatgccg ttatctcagc tgtaacatac actggatgaa 540  
 gccactatct cactgcagcc aatcaagatc ttgagagtga ccatctatat 590

<210> 28982  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28982

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 agtctagtgt ttctcttaat cccacatgtg tctcggttat aagtgtttca attacaacaa 120  
 ctgaatagta aaattcccaa ctttgcacat catctcagaa aatacaatca tacatacaca 180  
 acatggatca ctatggactt tatcaggctt gtaacgtggc tgggctacaa agaattcatg 240  
 cttttttctt ggattcaaag catgggttatc aaactctcga gttaactcgc taactcttac 300  
 aagtttatga gtccacttac cctctacgag ttgactcgtg tgtaaactct cttnttagta 360  
 gactc 365

<210> 28983  
 <211> 276  
 <212> DNA

<213> Glycine max

<400> 28983

ctataaatac actcatgttg ttacacttat tcgttctttg atgattgaga gtactagtga 60  
gacacatgat catagttgaa cattctatcc acctttttct ccttcaattc tcgactatcc 120  
cattattatt tctttcacta cattgagaca atatcatcat gcttctgact caaggctcaa 180  
atctaggggc taagggtgaat cttccatata ttattcgcta tagtatggag cactactcca 240  
ccgatctgcc tatatccacc gcagcatcta cttggc 276

<210> 28984

<211> 327

<212> DNA

<213> Glycine max

<400> 28984

tcaactgtacc aaaccctgtg tataacatct caaatcttgc attggattct attaatagata 60  
cactaattgc ttgtattgag agattgtatg cttgattcgt tcgaattatg gtagataccc 120  
ttgacattcg gccgatgatg tattcgaaca atctgctatg attcgtctcc gcgtaccgcy 180  
ttgatgcaga tgatattctc gataccgaac gattttttaa accttgctac agaattagag 240  
acagctgacc ggctctggaa aacatattgt acatactgat gcaactgatg cgctgtgtgc 300  
gttgaacatg gaaagattat atctata 327

<210> 28985

<211> 353

<212> DNA

<213> Glycine max

<400> 28985

gctcattcac gaacggccac tagctcatca cggtcctatt gtcaccaatt acgccacct 60  
acacactcta agaaccttat ataactaaat cataaacatg acctttctat gtgtatatgg 120  
cacctgcac tcacacagac tcttagatct atcctgatac gtgcataact gaacacactt 180  
gctctatcat gacacgcata catgctcatc ttgggtattct tcatatctat ctatacacac 240  
acttcataaa taatgcagac tcttgacaca ggagcgtgct gcattagata ctctactttg 300  
catcactagc cattcatcca cctaaagcct gatgctgata gcggtatata act 353

<210> 28986  
 <211> 291  
 <212> DNA  
 <213> Glycine max  
  
 <400> 28986  
  
 cacaacaagt ttgacacatc cacaatgcgc gcataaacc accatcccct gttgcccacc 60  
 tactacatga tcataggctt gcagaacaat ccattatct cagctgtgtc tataacgaaa 120  
 ggcgtcgaac gatcgaactt tcacaacgtc gcaaccacag aacggacaat caggccagac 180  
 tatggcagcc aagctaacaa ggactaatgc agaaactctg ctcaacacat caaccgatat 240  
 cacagcgttt ctcaactaaa gaccacagta acaattcctt cgatccaatt c 291

<210> 28987  
 <211> 294  
 <212> DNA  
 <213> Glycine max  
  
 <400> 28987  
  
 cattcagctc tgagctgtga tctctcagt cgagctgggtg acatgccact tttgtattgt 60  
 tgceettctac taccgtgcc atagactac tgcttacctg agatatccag ttgcttagct 120  
 ccaactatgc tctgtgtcgg tgcggaaaact ggtctttcat atctacctga cgatcgtgtg 180  
 caaaccttat atcatagacg agtccgagat cctctagccg actgggtcat tgtatcctct 240  
 gectactatc tatagtgtga tgaacttgaa catcatgatt tacgggtcacg agac 294

<210> 28988  
 <211> 367  
 <212> DNA  
 <213> Glycine max  
  
 <400> 28988  
  
 tcttaaagca aaaatggcat aataacctcc tcccataaat acaaacatca atgtaaattt 60  
 agagcaagct tatgcgccta tttccttaca aacgtttctt tgcacaagac atttaaccga 120  
 aaaaatgcac ccatatacaa tcaaggcagc ttcgttacct agattattta cacgtacctc 180  
 caaggtgtat ttgttactta catcacacac atctccttgg cttaaattcac atacatgcat 240  
 actcaaagca ttttggggca ccaaaaattg cacatgtgca catcttggca tttctaatac 300



ctatacatat gcaaacttca tgatgaatct tgactatcta cacaataagg tgctacattt 360  
catgctc 367

<210> 28989  
<211> 523  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 28989

cgcccttggt ggttttgatg cgtttgcaag tcgnggccat atcagctctg accttgatg 60  
actgtgaggg gccngcangt atgcttatct tttcaatacg gacacagact atgcagattg 120  
agagctcgct cacattgttc gctatgctcg acaatgaacc atgacggaca acagtcagaa 180  
acattgactc acttatacga catgacttga agagcatatc tacctactca ctatttggcc 240  
ataaacttat tcattcctga agatgatgac atatcatcag aatggagact gaagatgctt 300  
atgaccatga tactaaccat acccgttgat aaccgcttaa acttttgatg accatagtag 360  
gtgcgaacat ctatagccct gaaatctact tgctcatata cgactacctc atgctctatg 420  
tatcacacat gctttatgtg tgatgctcta agaacctcta tagaaagagg tgcggctgct 480  
gttggtaaat gattgtgtac ttatggctta ttacgatgca cag 523

<210> 28990  
<211> 127  
<212> DNA  
<213> Glycine max

<400> 28990

ctaattatag acatacctgc gataacttac taccctcatc taaaatatta acaccagcca 60  
ctttcttggt ccactagatc cctactggat ggcacatata tacctcgctc tattattgat 120  
accaaac 127

<210> 28991  
<211> 236  
<212> DNA  
<213> Glycine max

<400> 28991

aactttacca ttgacctcaa atccaatact ataataaaaa actatcgctg ttgccacct 60

acaactgagc tcacgtactc ccacgtagcc catatcctca tttctctgaa caacgggtcc 120  
 ccatcaatcc taccaagctt tcacaacatc caagcaaaac aacattgaaa cagcacaagc 180  
 tatcacagcc tatcaaaatg gaaccgtgcg ttaaattgtgt tcacacatca agcgga 236

<210> 28992  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<400> 28992

cacctctata atcgtgatgg ctgtctcaga gcgatagttc tctgatcaag aaacgagcat 60  
 caactaatgt atcgcgtaa caaactaggg tgttctctgt tatggatata gccattggca 120  
 aagtggcgcg atgaatagcc gtgctcgatc taatgtctac ccattacata gttggaactc 180  
 aaagcaccca ctagatctcc acagaaacct cacttccttt gtgttatctg aaagtccatc 240  
 tcgctgaaag cctagtcogt tccgcaatgt catatcttag acctcactat atgcctcatc 300  
 ttgagccatg cat 313

<210> 28993  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 28993

cgagaaggag gaaaggtgat tggagatgcc acttcaagga gaagatgagt cgagaacaaa 60  
 ctcaccacca tatgaagcca tggataagag cttgaaagta ggagaagatg agtggaggga 120  
 gagggagaga agagggcacg aaatttatgc ctcaaattag gtcaaaacat taaagtctaa 180  
 tttcttaa at gatcaaactt gaaaaaatgc acacacaagg cctctattta tagcctaagt 240  
 gtcacacaaa attggaggca aatttgaatt tctattcaaa tttcacttga attagaattt 300  
 gaatttgtgg atccaaattt ggagccaaaa ttntactaac tatgagtaat gaatttcagc 360  
 tat 363

<210> 28994  
 <211> 207  
 <212> DNA

<213> Glycine max

<400> 28994

gacacctat agactacctg tctgcaagca agctatatat tttgttatta gaccacatca 60  
cgagcacata ccttgctctc ttaagatgag ctaactgcta gctcgaggtc cacaacaatc 120  
ttggatgagg gtttatgcga aacagacacc aaggtgatag gcgctatcct catgtaccag 180  
gaacaattct aagtactcgc gggccac 207

<210> 28995

<211> 226

<212> DNA

<213> Glycine max

<400> 28995

ctatctgacg acgatgctta ttacacacta ctatgaatct ttgattgcag aggagctaaa 60  
gataccataa ggacatgagc aggcgcgtga agcacttgat gatacgaatg gcacatgatg 120  
agagatagac cttacaatga gcgcgcaaaa tcaatgcata aacttcgacc tagcgtatgg 180  
ggaggaatca ttgacataga ccataaacag ctctgtgtcc ttaata 226

<210> 28996

<211> 384

<212> DNA

<213> Glycine max

<400> 28996

aacattgcga gaactccgta tatggcccca ccatagcctt tctgaccttc atctgtgaag 60  
aagctcattg caggacctcc ccgacatata ctcacctaac cttacgctta ccgaaacggg 120  
gagcatagca atatatttgt gactaagctt gagagggggg acatatgtta cagcgtagga 180  
tctgatgttt atccatgcat aatgcaagga tctgctcatg cctgatgctg atatataccg 240  
cctatcactc gcttgcatgt tcagcttcat actggacact agaaatccga tgacgagtcc 300  
cccgactgta ctactacctg tgacccgcct atcgacttag agcgagaaat gtatctaacg 360  
gcttgatatg agagactgag agat 384

<210> 28997

<211> 317

<212> DNA

<213> Glycine max

<400> 28997

tgaattcaaa aaaaaaaciaa aaattacaat tacaattttt taaaaaatatt gtaatatttt 60  
atttttagctt gtgctcacgt actcccacgt agcccatatc ctcaattgtc tcagcacccg 120  
gtacccatca atcctaccaa gcttccgctt tcaatgagct cttttttaag gttgagagaa 180  
gaattgattt ggtctatgga ggtggtagcg tgggtttgat ggggtctagtt tctcaggcgg 240  
ttcatgatgg tgggcgccat gttctggggg ttgacctctc tctctctctc tgtatctgtc 300  
tctctatcct aatctca 317

<210> 28998

<211> 154

<212> DNA

<213> Glycine max

<400> 28998

ccacactttg acgtagggat ccagtgtgtc cgatcatgag tatccgatgt ctgaacttgc 60  
ataccattcg actacagaat ccgactgttg actatcgata agaagaatcc atactgacgc 120  
agcttcttgc aattttcgat agaagcttca tttc 154

<210> 28999

<211> 321

<212> DNA

<213> Glycine max

<400> 28999

catccaacta tagagtatga tgcagttacc gaaaaaagggt cttcatcatg tagtaatagg 60  
aacatattat gcagatgatt tggtataaga agtgacttat gtgtgcaaag gtatggctaa 120  
actcattat aacatacata tataaagaat tgaatagtca ctaaggatgt atttaacaaa 180  
tcacaagttt caacaatccc gtttaagata acacactaag gaaaaaaaaa gggattagtc 240  
aacacatgta ttatgggtata gaagacatta aggatgcaac acacattaca agcatcattc 300  
aatctcattt aatcatataa a 321

<210> 29000

<211> 220

<212> DNA

<213> Glycine max

<400> 29000

agcgttttatc tttttcatac gacaataacg ttgtagtcgg atgaccatat cgagtagctt 60  
catatatccg actctcgtat cgatatacat acgctctgaa ctagtatata cgactctaac 120  
gttatagtcg gatgaacgag ctgataactt aagatatcaa gacccaccga cttgatatat 180  
tacgctacga gatcatacat acgacaataa ctgttttgtc 220

<210> 29001

<211> 235

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29001

ctaacaggcc aacttactac agacgctccc aagagactca ccataacgat gcacanacta 60  
caatggccat tacttttcaa tcgaatgatc gattcaaaga cctaactcat ctaaacactc 120  
gaaacttaac aatggatgct ctctagaaat gcgagtggtc gtactttatc acaccgatga 180  
ccgateccat gacatatcat atgtagacgc tcaaagatga catcggatac tcctg 235

<210> 29002

<211> 244

<212> DNA

<213> Glycine max

<400> 29002

gagagcacia atccgagact tatccaagta gtcttttcaa tacgattagc ttattcacta 60  
gcctttcatt ttaacttgta tttagacctta ttacagcaac gcacactttc tttagattgct 120  
atgtgggtcta cctcttcttt tgtatttttt ttatttggtc ttaacacaac ttattcggtg 180  
tgtgtgctga tgtgcttggc cttccactat acatcgcgga taactcccc aaatttatgg 240  
aaaa 244

<210> 29003

<211> 233

<212> DNA

<213> Glycine max

<400> 29003

tctatcgaga tgaattacac aactggatt gacaagtccc tctggcgatg cgccttccat 60  
cattcctcac cagtctagag ccactcttaa tcccacatgt gtctaggcta taagctgttg 120  
ctaataccac aacgagaata agacaattat gccaaatatg cacatcatta tgataagatc 180  
gtatgtacat tcactacatg gatcgacatt gacttgagca cgctgggtac atg 233

<210> 29004  
<211> 561  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29004

ctcacctcca cggactcgtc tattntacta ttgcaattct tatactatgt catattcacg 60  
tatcatacat tctattgggt ctcanagtac atactacacc tatcagacac ttcactctcc 120  
tcacgtcgtt tctctctatc taggtcactt actctatcaa acctaatctt acttttccac 180  
ccagacgann nccccagta acactatgta gcttgcaccc tgctctatga caatctgaat 240  
agacaattag agttaaggat gtacctttta gataccataa accaacattg gttgtggcct 300  
tatggcactt aatgtatctt ctttcatctg aaaacatgag aattcacacc ataagccgaa 360  
aatcttcaca ctagccaaca ataagcataa tatctgggtc acttgcagtt aagtaaagaa 420  
gtgaaccact cctacctcaa tatcttgact tatcaaattg aattaccttt ctcatctcat 480  
tcacaaatcg tggatgatgc tcattgagat gatgcttttt tgcactttcc ctgctgcata 540  
cttactgagc actattcagt n 561

<210> 29005  
<211> 227  
<212> DNA  
<213> Glycine max

<400> 29005

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ctgagatgag gatagggtag acgccttccg ctatggagta agccaccttg caatgagctg 120  
ctgctgcatt aatcgtcttc tatcataggc tagcagatga tgctcatgtg ctcgattata 180  
tgtatagact gtctgagcac catgttagag gtattccccg cggctag 227

<210> 29006  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 29006

tatgatcaaa agagtattcc ttatgaaata tatcttgttt cttatcagca aaagtcctaa 60  
 tcatagcttg tgtccaatta cttgtttcgt tttgtttcct accatgatga tgattagtga 120  
 atgacacgtg tctaattcgt ttggttttca atgtgttttt tttaatcgct aagagagtaa 180  
 agggatttgg gaatcccttg tatctcatat tatataagat tttgtttgcc cgaaaaacaa 240  
 aacaaaaagg atcaaaacta tatgttttga catacacaat gctcatattg aagctgtcat 300  
 atgacacaca taatttagtg tttgattata aaattaactg acataaatta attttattac 360  
 acg 363

<210> 29007  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 29007

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 atttctgtct gtgatactga tacaatccca aagccactca acataatagc cttgataata 120  
 aaccacattt cctgagctgc ctatatagca aacaagcccg cacaaatcgc gctatgctca 180  
 aagtagctta tctaaatagg aaacgtctca tgatgacgta attaatgaat acgcagatgc 240  
 gagagctttc tccctgtaat ggacactgtc agatctaatt agtccgatgc agcatattat 300  
 gtccgctctc gacacccttc aacacgtctc t 331

<210> 29008  
 <211> 229  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29008

aaaccaacaa ttaatatattg ccgatataaa aaaagagcat cgctaagaat aagagatcac 60  
 aaacaaccat actatctatg caattaaggc agaacaccat attacaagca tacacagaat 120

tatatgggtc atattgaatg gatctcgagt aggctgcagg tcacaccacc agaacttgca 180  
actgtctaca gcaatctact ctctgtggc ttgtctntga taactagca 229

<210> 29009  
<211> 502  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29009

cgcccttggt tgtgtcgatg acatgacgcg gncgagtcga ttctcggacc tcgogcgggc 60  
ctatatatgt cgatctgcag cgcggtgctaa tcctttctgt atgacgctct atcgacatga 120  
agtcactcac tggtttgaca aggcaactctg gcgatgcaca tagcatcggt actcacacag 180  
tctagagcca ctcttaatcc cacatgtgtt tatgctataa gctgttcgct aatagccaca 240  
acgagaataa gacaattagg cctacatttg tacattatct cgaaaacatc gtttgtacat 300  
tcacgacatg gatcgacatt gacatgagca cgctgggaac acgacggaga cactgagaca 360  
tgatgcatat gggtcgaagt cagagcctgg agatgaagct cacagactac tctactagtg 420  
ttacttggca aaagtacact atcgctttag caaacggcta ctgctgacga actctatctt 480  
gacgacctta taagctacat gg 502

<210> 29010  
<211> 522  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29010

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actaatcgtg catgtacatt caatgtgtat aatctcaact tcatatacac tatcacatcg 120  
acatcattcc ttactatctc tcatcacatg ccaccgctgc actnnnnccct ggctctagca 180  
cgagattctc tatagtctcc gacacattta tttgctttca caaggaatag gttatagtct 240  
tcacaatatg ccaaacacac gtgctacatg tgggagtgat atcaaattcc tagcattatt 300  
agaaacacat caatttactc tccatattat gtacatgata taccacttgc tctacagaaa 360  
taggtgccac tttctcacat catatgttac aatgacagat accacataga tacgtgaanc 420



attagacatg gctacgctct gatacttctt tccagatact gcatatatgc ccagcagtct 480  
atagccacct tatctcattg ataacttcgg atcataatct cg 522

<210>	29011
<211>	304
<212>	DNA
<213>	Glycine max

tgactctgt gatggacgc cgatgtacct caacatgtta catacatcta ccttgacccc	60
attaacgcgc catcccctgt agtacacata tataatgtgca gacgtactac tacattacgg	120
actctacagt tttatgagca cttggacgcc atcaatccga ccaaactgat ccagcatcca	180
tgccatctgc atgatcacgc cacacctatt gacaccgat ctcaatggcg cttatgccta	240
atctctgttc agccctttta ccgctatccc atgaattgtc gatgcttgac ctgagagcat	300
cacc	304

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<223>      unsure at all n locations
<400>      29012
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<210> 29013  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<400> 29013

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 ctatcacctg accatatgat acccttgggg cgagctcgta gaacgataag agcagctatg 120  
 tgcaaggata cagtagggca tactattatg ccgcattata cgtgcactga ctaaagaagg 180  
 cattcgctat gatcttactt gaatggactc acacacgatg cctgtatgtg taccctgtgt 240  
 gagccacca gttggacgct catggaagga 270

<210> 29014  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<400> 29014

aacctctatg accatcaggt actacaacga actaaatata tcacatcatg ctccgagaga 60  
 ggtaattgat gtctatacag atcatctttg aacctgcact gctgtctctg tgcacttatt 120  
 ataccgacct ataataacta ggacttccta ctgtgcgcac gaaatcaaca catacactcc 180  
 tttctatgtc ctggtgatga ttccgtgact aagacaatga gcaagctctt ccgtaccata 240  
 tatatgaccg tatcc 255

<210> 29015  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<400> 29015

tgacctttct agctacaggt acaatccac gtggacgaat catcccaacc ttacatggtt 60  
 gagtcttcca caatagcagc aacaacaaca gtcgctactg caatagccct ataaatagca 120  
 tatagctgag gcttcctccg caccttcctt tgaagaactt gtgaggaaaa tgactatgca 180  
 atacatgcag cttcaacaag agaccaaagc ctccattcat agcttaacta atcaaatggg 240  
 acaattgcct acacagttaa atcaacaaca ttctacaat cctgactgac taccttctcc 300

atctgtccag aatc

314

<210> 29016  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 29016

gcggaaagtt tacactccca tgaggacgtc atgcctgaga ccatgatata ccacaggact 60  
tttatatcac tactttactc aaattctatt gcggatagat cattagacgc agtgaagctc 120  
ttgaatcaat tagaaaatca ccatgatgaa gatacaatgc tagactccat tctcaccttt 180  
cgggcattca taggggtactt attcaagggtt acaagacaac tagtagtgga ttaaatgagc 240  
tgctacactt atttatatggg tctaagttct atactatctc acgaagggtga acagaatgat 300  
gtgcatgtcg aactcggtcg atcataacct ttatgaacat ctttctacac tattatgaag 360  
ctagatgtta acaaagattt tgagcaacga agttcctaac taacgtcact 410

<210> 29017  
<211> 342  
<212> DNA  
<213> Glycine max

<400> 29017

ttgaactcgt ttgtaaactg gtcaaaataa tttatataag ctacgtacta aagcgacttt 60  
tcaccaccct tcttgctttg tttagatgga agagctttat tgatatccct ctgtttctca 120  
atgactcact cggttaattat acctatcata taagaaattg acaccacatg ttttaattaaa 180  
ttcacgtaat aagagagaat atattgaaaa gagagagcaa gagagtattt tgatatacca 240  
tcattttctca tgcaggaaca aaattttaaa ggtgcaggaa gttatactcc cgtgcatgac 300  
actcttctcc tccagagtca agactaataa caatcttgga tt 342

<210> 29018  
<211> 347  
<212> DNA  
<213> Glycine max

<400> 29018

gatccacata ccatctcctt tagctatata tcaccgttct tgagtacgag caagctatga 60

gcttatgatac acacctccta ttatgacttc actcacccgc atgctatcta tgctgttaat 120  
gccgaacacc atatctcatg cctacgcacg actcatatgg ctctatatatc cagtgtttta 180  
cctccatact tctagaatgg cctaatactt agggctggac gaaagaaatc cctagtctca 240  
tctttaccgt gatagacggc ctactactga gcccatgggg tattaatcta cacttggtgt 300  
cttgagtaca ctacggcctt gacgtcgctc tctataccag cctactt 347

<210> 29019  
<211> 344  
<212> DNA  
<213> Glycine max

<400> 29019

agtagttctc gtcacgtata gtataatctt aatgtgatga tatgaagaat aataataatc 60  
tatcaatgaa ttacatatta caaattaccc ctctcgattg agtattacca ttccgtgatg 120  
aacgttgtct ttgacgcctt gccaaatagt tctcctacgc ttccttcggt caccatatat 180  
gtccatgagt agttctgatt tctgcaacaa ctggcttata attgctaaac agcaggacaa 240  
tccaatgttg caactgagct aaataagttc gtgtagtacg ctgactgtaa aatgatacca 300  
atattatagt tatctgcatt tgcttcagcg agcaaacgga tatg 344

<210> 29020  
<211> 283  
<212> DNA  
<213> Glycine max

<400> 29020

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acgagcatca cagtgtggca gcaactcaaag gcccgagtaa cagcttgctc aggccgaatc 120  
gggggcagtg ggatggacgg ccctatgcta catggaagca ttctagtaca taagggacac 180  
agctctgacc gtcgggatct gctagctata tgatgcacaa cccgctctcg tctaccatg 240  
tccagcgaca tgcctacacg ggctttgcgc tggacatatg caa 283

<210> 29021  
<211> 246  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 29021

aaccacagag tggttcctag tagatatagc ttaggcgagt agcgagacct tgtagctggc 60  
 atgtgacgtt ataacaacca cacacactct cgatgaatgc tgacccatcc ccgtcatagt 120  
 cggtaatga gatactgtga tgtaacacaa cttatgagtt gcgggcgctg aagtgatttg 180  
 ccgatccact actcatcagc gatgacgctc gcagaggctg ggcanatgtg aatgaagcgt 240  
 gatgat 246

<210> 29022  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 29022

gctgaaattg agaatgaggt aaatttggag caaactctca cctcacacaa gtctataaca 60  
 tcaatttata cttgctcaaa ctggatttac acctaaaatt ccaccgaatc aaaatgtgac 120  
 tcttcaacac ccaattttac cctagaaatg gctctttggt cactttgggtc atttggtttt 180  
 ctctcttgta cagcccaagc tttctcataa gtcttaaag acatttcaag ctatgattaa 240  
 ctacttttaa ccttcaaag cactacatc cagattatgg ctttcaactt tcacaacctc 300  
 actatatttc actgataaca ccatattctc actttctaac cctatggtaa ctctaccct 359

<210> 29023  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29023

acccttgtg actagcctat ctagattgct gctgcttcc tctgagactg gactgacgat 60  
 caggctttct ggggttcctt gaagatccca cacaccctcc tatgtcgcgc acttgctgat 120  
 cataccgatc cctctaccac ctgacaagag gaatgccttc gtttaatccc gataccttgc 180  
 acccgcgcca tcctttatca cgccgagtgg tgctctcgca gccacacat gatgtgtacc 240  
 gaccgtacat atttattcct gcttatcaag angaccatcc tcactcctcc aataccacac 300  
 atgacctcgg ctccacgaca gatgccgtac ttttgcactc atccattgcg ggtctcttca 360

ttctacctat acaga

375

<210> 29024  
<211> 310  
<212> DNA  
<213> Glycine max

<400> 29024

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tcgaatcctt cacaacagca acagcaacaa cgaccttatt tacaaaatgt tgctggctta 120  
agcagaccat actttcctcc accaatccaa cagcaacaac aacaacagca atagcccat 180  
aaacaacaga cagttgaggc cactatgcaa ccttcattg aagaacttgt gaggcgaatg 240  
actatgccaa acatgtagct tcaactagag accagagcct ccatatatag cttaactaat 300  
tagatgggac 310

<210> 29025  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 29025

tgcggtgct tcttttagatg tgaccttctt ttgctgctca ttagccagc ttgatttacc 60  
tgtgcgttgc gcatttatct tcaggagtac tgagcattgc accttccgaa gactaggatt 120  
catcatagtg ctgataagag catattatgc agatgatgag ccattgatga gactgatgct 180  
agccattgga atggctataa acactacatg agataaggga ttggggaata cagtgaatgt 240  
tatatgcata tggaacttag agagaccgtt agctaaacac ttgggagcat cactttgtgt 300  
tatgacgtgc gcaatgctca tagaggcgct gtgttatgac tcacatgata gaacgaatga 360  
gtatca 366

<210> 29026  
<211> 307  
<212> DNA  
<213> Glycine max

<400> 29026

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ctaatacaaac ttatcagcca cattcctcta tcatattgat gtctttttatt aattaaaatc 120  
catttgattc acatcccacc catcggaat tccccctcct cattggaaat caaaacacac 180  
gtataataat aatatcatca taaaaaacat accttttagt aaaatgaaac gaaaaaaatc 240  
aatcgcacct tctctctttg ggatttctca ttcttaatca aattgactaa taactaaagt 300  
gaaacta 307

<210> 29027  
<211> 145  
<212> DNA  
<213> Glycine max

<400> 29027

acatatgcgt aacatttctca caagctttac atcgctgac tcacgaccc accgagatat 60  
ctatttgccg atgcaatata tgccttctaa tactggccac cctgttcggg aaggggaccc 120  
tacggactct ggcgagacac ataga 145

<210> 29028  
<211> 322  
<212> DNA  
<213> Glycine max

<400> 29028

cttcataacg gtattgacat tttcaaagg gttttaagtt tttctaaaag ctatcactct 60  
tttgaatggt cttcttgacc agacatggag agtctataat agcaaggctt tgtcttgcac 120  
ttcaagcatc ttgaattctt ttccaatcaa tcctttacaa gacatgactc tctttgaaca 180  
tattcttctt ctttgtagca acagctttat gaagatatct ggatatacaa accttgaaaa 240  
cgtgtgctag tcatgttttc attcaattct ccctatgcac aaaagaattc gacaaggact 300  
aaccgcctca attcttttgt gt 322

<210> 29029  
<211> 296  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29029

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ccgtatgttt aagatacacg gtgctacttg cctgattata ataagataat tgcattgatat 120  
aatcgcgtggt gagacattaa acatatgaaa aacctggggc cgtagcggat attcggatga 180  
acttactgga atcgtagga tgcacttcat ctaactcata cggaacagag cctgccatct 240  
gactcattcg ggtcaagatg tataaacgac attttctctc attgacctcg tatgtt 296

<210> 29030  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 29030

agtactaagt atttattacc tataacttaac agaaaatact tataacacta caaaataacc 60  
ataaattgga agagtttgat acgatttaca caagttttat acataaaagt tagtcgtatt 120  
caccgactaa caggcacccc atagaactgg cagagactcg tgatcaaggc cgaaaacccc 180  
agtgtcttat tggacttttt cgggtccact ggatgtcgaa gaggtgcat cccttgaaat 240  
cggtaaatgg catccgagat tagttgggcc acatgaatac taacttgagt caagatggcg 300  
tagaccagct ggcacttcgg caagggaata ttaaaattat gatcgtggg gaggatgtta 360  
ctg 363

<210> 29031  
<211> 185  
<212> DNA  
<213> Glycine max

<400> 29031

ggtataggtg gtagtattga cagttggccg aacacagata ctgcaggttg catgaaattc 60  
ataggatata catgatcatt aaaacattga gatcacaccg taacaagaaa cacttaaaat 120  
tcgtctgtcc ataatacagt gccagttttt catatcctat gttccaatga atgcatacca 180  
catac 185

<210> 29032  
<211> 360  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations



<400> 29032

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tctccaggag cgacgcgtcc agctcaggga cgacgagtat actgatttcc aggaggaaat 120  
agggcgccgg cgggtgggcat cactgggttac tcccatggcc aagttcgatc cagaaatagt 180  
ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca tgagatcctg 240  
ngtaaggggt cagtggatcc cgtttgatgc cgacgctatc ggccagctcc tgggatatcc 300  
gttgggtgtg gaagagggcc aggaatgtga gtatggccag aggaggaacc ggtctgatgg 360

<210> 29033

<211> 296

<212> DNA

<213> Glycine max

<400> 29033

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agatacctaa taatttatgt gtaatacggg tctcattcgc cgtgagatga gcgatacatg 120  
caggaacaca gaatcaagct tctagctcct tggaagtgcg agattaatat ctgcctgtta 180  
tggaatggcg actctgcttt taacagatct agcctagtga actattataa ctgtatgatt 240  
aatagacacc ttgtcgatac tgatagggtg tcgatactct acaccttatt atgata 296

<210> 29034

<211> 329

<212> DNA

<213> Glycine max

<400> 29034

agaaaccttt atgatgggca ttttgatgta caattacaat agtcattttg atgtttgctg 60  
agaatgaatc catacttgat gaaatctatt aatgaagatc ggatcgatat cccattctaa 120  
agtagcatat ctttattaga cttaacactt cttcaciaat ccaagcattt tgaagttgat 180  
tacttcagaa agactaagag aaagtttatt tgttggtgtg ttagtggttt gccacgcgtt 240  
agactgagtg atttacttca atattggatt ttgatgcttc tcatcagtgc ttacatgga 300  
caatttcac tttcaacaga attgcatct 329

<210> 29035

<211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29035

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 caagccttat actgtatttc aatgcgcggc ctagtcttat agcatatcat tattcatagt 120  
 cctctatgta attactgctg acccgtgcac gaggtttgat catcactcga tccacactaa 180  
 tcctcagacg tggagggagt tatgacccta ctctctatta taaaccttga gcaataactt 240  
 tacataccat atacattatg aatcctttgc ttaaacaatag ctgcgaccc taccactca 300  
 tgacccatcg tactcttata acccatctgt cagatcacgc aagaattccg cacttccatc 360  
 ttcatttcat atcgcatccc tgaacaacca ttgcaacag ttatgctaca ttctatccta 420  
 taagcgatgt agctccatgc cgtggataaa ccaccctgcg gcgcn 465

<210> 29036  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<400> 29036

ttcatgaaaa tacaaaaaaa agtccctact acaaagacta cccaaaatgc cctcaaatac 60  
 aaggctaaaa ccctatacta caagaatggc caaaatacaa ggcccaaaag aaggaaaaac 120  
 ctattctaat atttacatag ataagcgggc tcatacttag cccatgggcc caaaatctac 180  
 cctaagtctc atgagaaccc tacggccttc ccttggtatc ctggcccaat atactcggag 240  
 tcttctatcc aattccctaa cgaggtagga ttacatcact atgcatgcat caactttgaa 300  
 taacaccac acggaaatgc tcttgctta ctcaaatttc tcaatttcag acacgttgat 360

<210> 29037  
 <211> 183  
 <212> DNA  
 <213> Glycine max

<400> 29037

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 tcactctcaa attccccaga catagctatc tggacatttt gagcattaac aatgacttct 120

tgtcacaccc agactggcta ctattacctt catgacattt acacctttga tgaacatact 180  
cta 183

<210> 29038  
<211> 348  
<212> DNA  
<213> Glycine max

<400> 29038

aaagtgccta atgaatcctc ccgtgcttat gccaccagta cctggaaggc ctctcatttt 60  
gtacatgaca atcttggacg agtcgatggg gtgtatgctg gggcaacatg acgaatccgg 120  
gaagaaagag cgcgctgttt actacctaag taagaagttc acgacctgtg agatgaatta 180  
ttccttgctc gaaaaaacgt gttgtgcttt agtatgggca tcccatcgcc taaggcagta 240  
catgctgagc cactactacct agttgatatc caaaatggac ccgggtaagt acatctttga 300  
aaagccagct ctacggggac gaatcgcccg gtggcaagtc ctgctatc 348

<210> 29039  
<211> 272  
<212> DNA  
<213> Glycine max

<400> 29039

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tatatacata tatgatatat catgccatta gatatgatga tttaaactct atctaattac 120  
atatcatcta ccacatgttt agttagattg acgtattaca tagagaatgt gttgataaga 180  
tatagcatga tagtatctcg atataccatc attactcatg catgatcgaa attgatacgt 240  
gcatgaatta ttctcctgtc ttgactatct tc 272

<210> 29040  
<211> 364  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29040

tcaaagggtgc tatttttggga agacgggtgt aaggatgatg gggtttcggt gatggaaaag 60

tacccaagct tgtaccacat ttctcaatag caacatcaat atatccacga gcaaggggag 120  
 acatcaggta cagggttgga atgacagtgc cagtggagat tatttttttg aggggtgaaat 180  
 agacatgact gcaaatttat gaaggatata gaagggtctga tcgtccaact gcagcgacta 240  
 gacacctaga attgggagcg agattcaagt gggggatata caattgggaa tgcttatatg 300  
 atgcttgata gggattcgac aaatganaat cacgatggag agtttactac attatggaag 360  
 ttaa 364

<210> 29041  
 <211> 193  
 <212> DNA  
 <213> Glycine max

<400> 29041

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 cactagtaat tatagactat aattgaatcc ctgattacaa tccacaccga tgcgctaccg 120  
 attcacatcc gtgggtgaac gcgcgaagat tcgccaccat tcatagtctg cctaccctcg 180  
 ctctttgcac ctt 193

<210> 29042  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 29042

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 acagcaacat tagatactcg cattaaagtg tctaattccag aggatccaga gccatcaatg 180  
 aaactttatg tggaaaacca ggcagaccct gcaatgcgat tagtctctga gatgatgata 240  
 ctttgcggtg aagctgttgc cacatttgga tctcggaatg acattccttt accatacagg 300  
 ggacagcccc aatcagatat gaatgtttct gaa 333

<210> 29043  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29043

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 gactcgttga ttgcncgaa cttcattaac gcctgcagga tacatctttg actatcttgt 120  
 caacgcatag atggattgcc gcagtttgcc gaaagactct acaacgcatt ggctgactcc 180  
 agagcacata ctgtctggag cttgagctcc ataacgcatt ggctgactcg actacgcact 240  
 tgcagactca tatctgctga cttgactaca ca 272

<210> 29044  
 <211> 125  
 <212> DNA  
 <213> Glycine max

<400> 29044

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 acaagagacc tcagccttca ttcttagctt aattaatcct atgggacact tgtctgcaca 120  
 gtcaa 125

<210> 29045  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 29045

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 tatatattat atcgccgaac atctttctta gacacatacc cactaatcat tacacatgta 120  
 gaaaccgtta cttcacgtga taatgaatcc cgccgatcg gtcatgccga aaccacattg 180  
 tagatcatta tacaggctct acaatgatgt gccattgaa accctacctt ttagtgtatt 240  
 gacgtgtgac aacttaatca gacggggccat tatgtgatac ctcttacgat gaatatctga 300  
 ctatatgcat tactga 316

<210> 29046  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 29046

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 tgatgatctt gaatggtctt cttgaccatg acctggagac tccattacaa caacgatcat 180  
 ctttgcatctt catgcctgct gacattttga tgatggagct ctttacgcat gcttacattc 240  
 tttgagcgac cgacctattc tgtgcaccat catactgtat gaagtgcac tggaatgaca 300  
 aatccttacc aaccaccctt agtcacttta tctacattt ctgcctttgc ccatgggact 360  
 actccaa 367

<210> 29047  
 <211> 205  
 <212> DNA  
 <213> Glycine max

<400> 29047

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 acctctatat gtttgtgaca tcaccagacc atactttctc ttgctcaaac cagctactca 180  
 aacttcaact tgagttttcc caaat 205

<210> 29048  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<400> 29048

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 cttgatgaaa tctatgattg agtaactggt cgtagacca ttcttctat gcagctcgcc 180  
 attagactta tgactttctc acttctgcac atctagtgcac tgagatcact ttagatgcag 240  
 taatagaagg atcatcatgc cttgtgcact cgtatgagcc agcgtcatac gcgccgattg 300  
 acttcaatca tgtatgctga tact 324

<210> 29049  
 <211> 467

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29049

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 accgacagct gcacgctttt ctattttctc tccgcagtac cacactgctg gctatacgat 120  
 cgcatactc cagcatcgct tacacgccgt ccaaggatga gtccatactt caatagcgag 180  
 gcgtgctcat taaggaccac tagtatactg atacctacct atgagaatcg gcgaccgcag 240  
 agggcatctc ttggaactac acatggccaa cttcgatcca tgaacagtcc ttgagctaca 300  
 tgccttagca ttgccctccc tatatggcat gccctaccta agactctaga gactgggtcg 360  
 atgatacctc tgaatatcga tactatcgtg ccttactgaa tcttcgnaaa catgtgatac 420  
 gtgacgaatg gaacatgccc tagatgttcg gccacagttc atccgac 467

<210> 29050  
 <211> 97  
 <212> DNA  
 <213> Glycine max  
 <400> 29050

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 catctgaact tgtgtccaga gctagttcta ctttacc 97

<210> 29051  
 <211> 309  
 <212> DNA  
 <213> Glycine max  
 <400> 29051

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 cacctctgct gactctcatg ccgttgatca tgacgcgcac gagacgctaa gcctcaagac 180  
 tcattatcta tattctaata cacacgatgc ataccatct gcgactctat atgtggaagc 240  
 ctacacccac cctgctttgc gatgagccgc taagatgatg atacttcgcc gtgaaggtgt 300  
 agacacatt 309

<210> 29052  
 <211> 519  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29052  
  
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 ccagtcacta gaatataccta ctagcaactc tgacagcagt atgacgagtt gttaagacaa 180  
 tggaccttca tccatatacc gggtcatgat caacgtctta ccttgactgt gactcgatgg 240  
 caaagctcat ttacatatga agctatgtag aatatctttg atcatgataa ctattcatct 300  
 tagactacaa gtggtgatga aagtgaccac tagaacctcg tgatgtgctc ttagtgcaag 360  
 tectatacat tattatgtat ataagctatc tttctatata ctatcgacca attggacact 420  
 gatcaaactc attccttctt gcacgagatg tagtgatcat gtcgctatga tatgaaacct 480  
 agccttgtaa tataatcacc tgggtgtttt ctaactatc 519

<210> 29053  
 <211> 304  
 <212> DNA  
 <213> Glycine max  
  
 <400> 29053  
  
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 ctcgattgac aaacgtactg taataggtac acatatcagg atgctcctac tttgaccatg 180  
 catgcacaat ttatccttat gctcaagaca tccttacgct cttctgttga atgtctggct 240  
 caatgaactg ggagtcttgt atccaagacc gtctcgatga gcgagtacat ctctacgctt 300  
 gcat 304

<210> 29054  
 <211> 330  
 <212> DNA  
 <213> Glycine max  
  
 <400> 29054



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 tgatcagtaa atgccttatg tatectatcg agcttatgcc tccacggcct gattgggtcta 120  
 tcattatgta catgacgacg ttggacgagt caatgggtgtg aatgcagtcg tctcatgacg 180  
 attactggca gacagatggc gctgcacact atctatgtta aacgtacgat atctgtgaca 240  
 ccaatgactc cttgctcgca tcaacaggtt cagcttgaat atgggctgcc catcccttat 300  
 agcaattcac tcatgaccat actacctatg 330

<210> 29055  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 29055

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 ttgctccctt ggacattgtg ggagacgcct tagattgtga tgcgacattg atgattgcca 180  
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 cggagatcga attcagactc ctgcattggc ggaactgctc tgattgactt cgcaaacagc 300  
 gccaggctgg tgagagatca tgtgctcgga agactcccat gtgagggat 349

<210> 29056  
 <211> 504  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29056

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 gatggcgtag tagcttctcc catcatatct atactcaatg agaatgggtcc agcagcgtca 180  
 acgcgcacaa taatactaca gactgaactc ttgtagaaaa cactttaacc gaatcactgt 240  
 ttatcatata cggagctcag cacctccagc ggctagagac tgtgacgcac cgccactgcc 300  
 gttacagtac ttacatgtca caccctatcc ttgcttaatt caccttcttg catactcgag 360

gcagctatga ggcattcatta ggtgctcata gtgcacagag tgagcattgc ttatacctat 420  
 atctagctca cctctctgat gactcttgac tatatacaca gtagggggcc acttgctact 480  
 gctcgatgaa tacatttctg cttt. 504

<210> 29057  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<400> 29057

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 actactctgt tacacaagtg gcctcact tcttaatgaa aggagttgaa gttggataca 180  
 ctctcatatg cagcactaac acatatctct ctgtctgatt tacattgcgt ccttgatact 240  
 agaactactg gtaaaacaac tcgaaatcca tcgtttatgt gtggccatgc gcaataataa 300  
 a 301

<210> 29058  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<400> 29058

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 ttcccacggg gtgctgtttt tgcaacgtacc cagcatgcaa gtcgcaattg ggagtgcaca 120  
 cttcatgcat ggctgacatg tggcgaacgc tggagggacg cgccagtact gttggcgact 180  
 tcatgcatgg ctgacacgtg gcgaacggtg gagggacgc ccaacctcat tggcgatttc 240  
 agcacggtga cgccccagtg ctgttgagc tttgtgctg ctgtgtaaag tcccgtcaag 300  
 cagtgtatca gtatcctagg tgcagctgca gaagctagct ct 342

<210> 29059  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 29059

**THE**  
**WORLD**  
**OF**  
**THE**  
**FUTURE**

aaagagagca	cgaattctag	actaagccag	atggacacat	cgagatatgg	acagaaagcc	60
gtgggactag	tgccttctct	taagtaagat	gggggcttag	cgttctctgta	caactgtatc	120
catatagact	gttatcccc	ataccacagc	atcgagaggg	gctctaattgc	ttaacacaat	180
gagcctgaca	cttagtgact	gttctcccac	acgttccaga	cgcatagtgc	ctcgttccct	240
aagctcagat	caagtgagag	ccaggtacta	gcgcaatata	gcctgagtgg	gccggctctc	300
atgcctacgt	ctaattccac	tgtatacaac	gtgagatcgc	aacgcaacat	tgtgccatgt	360
gagctcttcg	gtcacacagc	gtgattcn				388

12111

tcgctcgtgc tgtctccgct gagctgtgta ttacgtgaga tatecttact aaagccgctg 360  
gcctgcaagc acggtacatg gtttctcaaa ttactcgctt aaggacgtac atactatgga 420  
tggaac 426

<210> 29062  
<211> 217  
<212> DNA  
<213> Glycine max

<400> 29062

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tcataacgcg ccggccggga tccatatac attacatccc cattttaacc gatgctgat 120  
caataggaga cggccgaaca gctgcaagcc gacgtggccg ctctgaaaga tcacatggac 180  
taactggtga gggccatgac tatgctgaac ctgctca 217

<210> 29063  
<211> 469  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29063

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ggaacgccgc atgctatctt taaagttgac ctagtatcgt ctgagagacc atcgaacctc 120  
tagacattac antgtgtggg agacatgact agcatatgct ggagtatcag ataaccatg 180  
accacgtggg gggccgagta cgtgtctctc tcgacttggc cttgactacc atcagcgaag 240  
taattgacta ctgtgagtgt ctgatcgaac cgatgcatcc tgatggattc ctaattggtg 300  
tgaagaacaa tctcccttac tataaacatt atctacgca atacttgggc gtactcatcc 360  
gcgactctgt gcacgtgggt gatggctaga cgctattact attggctcta tgagatgaca 420  
gcttgctgt cgctccctcg tcatcatag cactcgtaac tatctcgt 469

<210> 29064  
<211> 179  
<212> DNA  
<213> Glycine max

<400> 29064

tgccctcacat tatcttgatg acgcaacagc taagatgaga atctaggaga tttatccatg 60  
agcagtgatg aacgcactta tcttgacact cttgcgtcaa cagtatctag ggaggcgatg 120  
gtccggctct ggagtcattc cctcgataca acagccacac agtgattcca aactatgct 179

<210> 29065

<211> 237

<212> DNA

<213> Glycine max

<400> 29065

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cggatataga catgcacgga attatatatc taagctgata tcataggaca acgacaataa 120  
ctgttatctg cgaagcccaa ttgattcccg cctatatca agacgctcgc agtttagaac 180  
cgaagctgga ctaaaactaa catacgattg atatgtaatt ggatgtccga ttggctg 237

<210> 29066

<211> 224

<212> DNA

<213> Glycine max

<400> 29066

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ctggagctta tctacactgt tcttgttata taactaaata catattactc gtgcttaact 120  
gatgttgtct caccacacgt ctcatagct tgaacctgtg cacacttctc tcatatagaa 180  
caccgtatct tcttcttcat caatatccaa cagtactcga acgt 224

<210> 29067

<211> 131

<212> DNA

<213> Glycine max

<400> 29067

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cctgacgctc tctaccagct catgctgac tctacacatc atctttcatc gaagatcctg 120  
tgccccact c 131

<210> 29068  
 <211> 221  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29068  
  
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 cacttctact ctgctcgcgt cttgtcacgc ctttatgtga ctcttttccc cgaacgagac 120  
 gaaacttccc ggatgtggtt accatactcg tctattggcc ctgccgtgac ggtacctgac 180  
 ggacttacct gcttatccat ntaatgatgc tgtagagtgc a 221

<210> 29069  
 <211> 233  
 <212> DNA  
 <213> Glycine max  
  
 <400> 29069  
  
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 cgacgggaca tacgctggtc gtgcgggctt gccttatgac gatatcaaag tgcctgattc 180  
 cttgaacctg atgatcaccg atgcattaag agttgtctat agcctttcta tga 233

<210> 29070  
 <211> 311  
 <212> DNA  
 <213> Glycine max  
  
 <400> 29070  
  
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 gtgtgactag ctatgaacat cggattgact tgaggggttc cgtatttcga cttccagcgt 180  
 gacgagatat gatgctggca gaatatcacg acctttcggg ggttatgacc ataggaattg 240  
 atctagagcg cgctgagtcg gacttcagcg tgacgattat gatgcgcgga gaatctgact 300  
 accctgcgat g 311

<210> 29071  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<400> 29071

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 tcggatgaat gagcttatac cttcatacat caatacccat cgtctcgata gattacgaga 180  
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<210> 29072  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29072

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 atccttatcc actacatggg tgcattgactc cgtagggacg tgcgatacat caagggcgct 180  
 taccggagga cgcgacgcgt ggctctgct gtatgcgtct ctgccggctg cgcatacacc 240  
 gaaggactcg ccctagactc actcgctact gtatgcgacc tgcgcctacg cccacctcac 300  
 taatacaaca ccgaggcggg acgattccag catctttgtg cttgggtgga agaatgcgtt 360  
 gaataacagc actacagtta ccttccacan naattatgtc actatggat 409

<210> 29073  
 <211> 217  
 <212> DNA  
 <213> Glycine max

<400> 29073

accttccttt agacgggagg gcaactgaagc cacaacagat ggacccccga atcactttaa 60  
 gactgtacaa cagcgagata cagtcgatat atatggctct ctgaagactg atggtcattt 120  
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tagagactca ctatagcgtc cgacctccac acaatct

217

<210> 29074  
<211> 168  
<212> DNA  
<213> Glycine max

<400> 29074

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tatgcagaaa catttgatac taattgacgc attttatcca tcacttggag ggcgctcgtc 120  
caaatatcaa gcgcccgata aagctagcaa agactcgtga tccatggc 168

<210> 29075  
<211> 265  
<212> DNA  
<213> Glycine max

<400> 29075

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aggtaccata tcgatgctct agactacata gacctacatg tacagacgga ctgctctgta 120  
acctcatcag ggagaggtca ttcgtttatg acgattcatc cacctgctct attcacttct 180  
agcctacctg attacgtggc gctaaatccg atcataccga tgaccatagt gcacataact 240  
aataggagaa gcacctgggc taatg 265

<210> 29076  
<211> 108  
<212> DNA  
<213> Glycine max

<400> 29076

actttcttgt tcctttgaaa accacacctg atgcttgaga tcaaactgtg tccatctgac 60  
tggtccttat cctctctctg aagctaaagc tcgcttgctc tgccccac 108

<210> 29077  
<211> 346  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29077



<400> 29078

<400> 29079

<223>        unsure at all n locations

<400> 29080

agcttcttcc ttgtgctaag ttttgggact tagtttacct catgctcaat tttatctcgg 60  
tacttcgttt ttggtaagtc attagctcaa tttttgactc ctataattta gagaatgatg 120  
catcattttc tcaattaaac attttcaatg attatcttta tcttatttag atatacatgt 180  
ttatgctatt aaaaaacatc tgaatttttt agattatgca gagaaaatag gaagggagaa 240  
gaagagagaa agatgataca caatagatta acttaaaggc tgtaactggt cgtccatctt 300  
agaatcttac aatccgtcaa ttaacaaaag caaatagaac aatttttttt attaacgggt 360  
tgttntatth tatactataa agaatatcaa ataaaagaat 400

<210> 29081

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29081

cttgggcata gaatcntgaa gttgagggaa ctgaagtgna tatcactccc cacaaatcct 60  
tttagtagaa caagtttaga atcctgtgat ttaacaagac aaaatgatga gtgaaacttt 120  
acctaaacta gataactcac tcgagtcaat ttggaattaa cataagtaaa gtacactcct 180  
aacaacaaca ataataaata tatatatata tatatatata tatatatata tatatatata 240  
tatatatata tatatcttaa tttttaaata ttaaagtttg aaattgtggt tatttcattt 300  
tacaaaactc gattgataat gtttattata ttaattatth atagactata aaaatctctc 360  
attaaaatca gatatatthgt attgacaaat aattagaaga aagagagata ttaatgacaa 420  
tgagt 425

<210> 29082

<211> 302

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29082

agcttattct tatgccttgc ctccggactt cccccccgt gccaccccgga aagatttaag 60  
ccaagcccct actttcgagg ggcaactccc accttatgac gactatcccg ggcaagacga 120

tgaggaagga gatacctatc ttggaccctc gctccacctc aaagatccgt ccccccatga 180  
 actaccccaa ccgaacatag tccgccatat cccggcttca cccacacctg taaaagaatc 240  
 tgctcccttc gcagatgata acggaagat ggaggcgctn gaagagaggt taagagcagt 300  
 cg 302

<210> 29083  
 <211> 291  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29083

tatgttatac aacaaagata ggagagtcag caaaatactt tcttcnattt aatctgccat 60  
 agctactcag tttgccaatc tccctcaaat gctactacaa aacctacaac aagctcagca 120  
 aaacatgttg ggtgttgtca tccaaccacc tcccattatc caacaacaac caactccaag 180  
 tatattgctt gcacctgttg aaggaaaacc atcatcacc acatcaacac caccagttca 240  
 gccaccacca ccaccaccga ccaatcaaga gtgacaatga tgtcccatca t 291

<210> 29084  
 <211> 388  
 <212> DNA  
 <213> Glycine max  
 <400> 29084

tttcttgttt ctacacgtat gtatcagctc caatagatct ttcgctctcc atgctctgct 60  
 tgttgagaaa gaaaatcggt gttgcttacc aaggagacat cctttacaca cttcattggt 120  
 ctcccttatg cttggaagat ctctcatcat gttcttctca tgtaacaact tcaaggcatg 180  
 tgtgttgaag tggccaaatc ttcgatgcca tagccatgaa tcatcaactt gtaccttcat 240  
 gccaatgggt ggtgcatatt taaatttaga gggaagcttc tattgctctt attcatcttt 300  
 acttgggcta tctcagacct ttctatttgt tgctaagat ttgcatacac ctccctttaa 360  
 gtgaagcgtg tcgcctctct caatcatt 388

<210> 29085  
 <211> 214  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 29085

ttgcttttat gttcatcttc ttctctttca ttctccattt tcatgattag gaaggactca 60  
cccttcaagg tcaaccaca ctattttctt tgcttcattg agtcaacaaa gaggtaagga 120  
aggagtattt catttcttac gaccgtact atgttgctag gcactagaac ttcattctata 180  
tggnngatttt tcatggtaa caaaaaattc ttgt 214

<210> 29086  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29086

ngtaggatta tggggtacct atcacatgta ggactttggt gcggtcggtc gatggtgcac 60  
aacaagtttt ccacatgcac aatgcgcgca taaaccacc atccctgtt gccaccttc 120  
aactgagctc acgtactccc acgtagccca tatctcatt tctctcaaca ccgggtcccc 180  
atcaatcttc ccaagcttcc ccaacatcaa attaatacaa cattcaaaca gcacatgcta 240  
tcacagcaaa gcaaaacagc gcaaaggcag aaaactctgc ccaaaacacc aaccaaata 300  
cagcttttct cacttaaaga cccagtaac aattccttcg ttccggttca ttaaccgttg 360  
gatcgactcg aaaatttact ggaagtctct agtacataag cctacatttt gaccgttggg 420  
atctact 427

<210> 29087  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29087

tttcttttat atggaataac aacataaata caaggctgtg caccaacaat gaataatgga 60  
ctcacacggt ttctgtgtat ctataccagc agcacaata cagttaacc atgataccca 120  
accatcatct gctgatgacc cttactgctg atattactaa atgtagagca tatatgcaag 180  
ctatacaaaa aagcctaccc ataccatcta ctataacatt cacgtaagac ctgtatcatc 240

atattaatcg atctcctttc cttaacaaag agatcgaatc aatcataacg ttatacaata 300  
 canacacgcc ctgggattca tctccattc acaatacgag aattttcttc ctctcccttt 360  
 cgcattaatc actgcccgaga ctctatgttt tgcc 394

<210> 29088  
 <211> 468  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29088

ccgcctccta tnatcttgta gcaccnacgc gacacnanag aaacncaagc gggggaacca 60  
 cnacaacaaa cacngngggg nncnntgtg gtttcaagac cancacacag caagagggag 120  
 cagccggcna gggacnccca ccgccagcga cgagaaacn gccgtaacca accaaccgc 180  
 gatagacca ggcggggncn ganatatcca ccaacggata ccctcacctc accatggctc 240  
 acacgaagaa aacaaatnac gcttttgacg caaaacacaa tgccttcccc agtttttgta 300  
 tagaaagatt ataaccgtac ttctcaaaa accaatggcc ctgaacaagc ccaccacgct 360  
 tcttttcgca aatcaaaaaa gccacgacaa tagaaggta gttccggccc ccccgacaaa 420  
 tacctgctaa ccccggaagag gcgaaaacaa acagaacaca ccagcgcg 468

<210> 29089  
 <211> 343  
 <212> DNA  
 <213> Glycine max  
 <400> 29089

ttgcttcttc tttattcacg aagcataata acaagaaaac tacatgatta gtttccctt 60  
 gccccccact ggatatatac tatgccaaaga cataaatagc tcaagtgcaa tttccatata 120  
 cttgatattg ggtcaggaac caaggacatg tgtgcacaat aagattaaga aaatgacatt 180  
 gaaacggtgg atcgtgttcg tgtgctgtta acatttcata ataatgtgac ggtagcaata 240  
 atgacaatga gtcgagaatt tgacagagca tcgcatgaac attcaaatta gcatatgtac 300  
 tgtttgactg cttatgaatc ctcataaaaa cagttttctg acc 343

<210> 29090  
 <211> 303

<212> DNA  
<213> Glycine max

<400> 29090

gagccttctg ggcattggta ggagagggtg caagaaccgg acacatcagc tgaaacaaaa 60  
gagaacaaat atctgagggc tctgaaactt tctaaaataa caaagagttc caagaatctc 120  
gaagaaaaca tcaaattctga ctctgaggta ttgacagcgt gccaatTTTC atcaaaagaa 180  
caaagcaaac aaatttcaat acccaaattc ggaatagacc tgactgcaaa caacaacagg 240  
taattctttc aatctttcaa gatagagaac ctccatgtta cttaaaataa gactgcgaat 300  
att 303

<210> 29091  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29091

ttgcttttca ttcaacttcg agcgtctcgn tatattatac gactcaatta gacatccgag 60  
tataaagtta ttgtcgtttg aatttttctca gagcttcaac attcaatttc gagcgtctca 120  
atatatgacg ggactcaatc acacatccga gtaaaaagat attgtcgtct taataggctc 180  
agagcttcta cattcaattt cgagcgtttc gatatatgac gggactcaat caggcatccg 240  
tgtaaaaagt tattgtcgtt tgagttggct cagagcttca acattcaatt tcaagcgtct 300  
cgatatatga cgggactcaa tcaggcatcc gtgtaaaaag ttattgtcgt ttgaatcggc 360  
tgagagcttc aacattcaat ttcagcgtct c 391

<210> 29092  
<211> 230  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29092

aacacgctcg aaagggaag gcgaagcccc gagcaaannc aaacgacaan anannnncaa 60  
gcggagggcn aanggagncc cagaacacaa cgagacgcta gaaggngaag gcngaagcgn 120  
ngagcaaagg caaacgacaa gaacggnnca ctcggaagnc nganagagcc ccgnaacaaa 180

aggagacggn cgaaacngaa cggggaagct cngagcaaan ncaaacgaca 230

<210> 29093

<211> 209

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29093

agagcaancc gaaagaaagc cagaaaggaa aacaaaagnc acgaacccca ccaagaagaa 60

aaagaaacnc gagccaacac ccacncgaac ccccgangcg ggccccacag aaaccccacc 120

gaacggagna agggcccgaac acggcancga aaaagaaaac cccgagcgag aacccgaaga 180

ccncggcacn gagnaacacc gagaagaca 209

<210> 29094

<211> 293

<212> DNA

<213> Glycine max

<400> 29094

ttcttttcac ccttaccgac aatggaaaaa gcttttaatg gaagtcaaga gcatgaaagt 60

gcactgatac cattaactag tcaatatgtt cttgagcagg ttgaagacat ctatactata 120

tttggaagaa ccataagaa ggataaaaag actaaaactt gcatatggaa gatgaggccg 180

atattgatcg atcttgcata ttggttcgat ctagacgtca gacattgtat caatgttata 240

catgtggaga caaatgtgtg tggtagtggt attgccacac tccttaacat tca 293

<210> 29095

<211> 143

<212> DNA

<213> Glycine max

<400> 29095

acggacctga cttctatggc cccccataa tctaagtttt agattaaaca gaggaaagcg 60

ccccggaaag gacctggaca cccgccaccc ccactcggag acatcgggcc caagtcagcc 120

ggcgaaaccc ccgaaaggga ggc 143

<210> 29096

<211> 413  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29096  
  
 agcttgtatt attactacta tcgcattgcc ccacaattca ccacagaaat agaacaaaga 60  
 tttatccaca caggttcaat gaatagtaaa tagctgctgt cttaccgcgc ggctattatt 120  
 tcctcctttc caattcattt ccatttatta aatttaaatt gggaatttgg atctcgggct 180  
 tccaagtgc tctgtattac tgtataaaat ttgggatgat aatctatgat ataaatatta 240  
 gtcagtcata attgtcacag atctaattaa acctattaac tttgcattaa ggcaactttc 300  
 tatttatttg gtttgaagat tttaaaccta tgcttcttcc attgcaaggc cctaatttca 360  
 ttntatccaa aacaaaagtg agaaaatcat tggttcttta atttctccaa ata 413

<210> 29097  
 <211> 436  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29097  
  
 tactaagctt gatccacatg gcaccgtctt cctgatcgcc ctaattttct tccaccaaca 60  
 agattattag tagcaaccaa catgacattc ttttcagctt ctatggcccc aaatggcgcc 120  
 tccttcggcg taacctcact tcaagaatcc ttcaccctc acaagttaag tcctattcac 180  
 atgctcctgc aacgccttag atggttattt ggttgctact tatgcctctg tgaatttctt 240  
 ggtagctgag atcgggaggg acccaacagc ttgggatgat cctttggcct ttaagccaga 300  
 gaggttcatg aacaatggtg aacaaaatgg aggcacaaat tttgacataa tgggaagtaa 360  
 agagatcaag atgatgccgt ttggggcagg gaggagaatg tgtcctggct atgctttgng 420  
 aaatttgac ttagag 436

<210> 29098  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29098



agctttaatt nttttaaaat taatttataaa aataaattaa ttacaagagg gaccaaacta 60  
 caaaagcttc aaatttatta acttatcatg atgtggaatc aatttttaag gtggttgtaa 120  
 tctattgggc tacataaatc atgggttccaa aaccctttta aatgtaaagg tttcattaga 180  
 aaccacctaa aaatattggg taactctttg atgctaagga aacttatctc aagattccaa 240  
 tgactgacca aataaatttt attcattcca agaaaacatg attcccagga ttcatgattt 300  
 ctagcaatca tgattttctaa acatgaaaaa acttattccc caccaaagtgt ccataaatat 360  
 gtatgatcaa caatttcatt accataaatt aattaattgt atttagtat 409

<210> 29099  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29099

tgaggagaca ttgaatcaat tcatacagat gtccatgtcc aatcnatgag cacaaagtca 60  
 tcaatcaaga acttgagat acaagtggga caattagcca aataaatggc taaaagacct 120  
 attagcagct ttagagccaa cactgagata aagctcaaag aggagtgcaa ggtaattttc 180  
 actatgaggg aaactgcaga gaaggaaaagg agaattaagg aggatatgcg tgatgaggaa 240  
 ggagaaaaaa agaagaggga ggaaaagata agagtaagga gagtggtaat aaggtctcaa 300  
 ccactaagac caagaccaag agccagttag ctcatgaggg cagaagagag ataccaccag 360  
 cctcatcaaa aaaaggcacc ataccctcta gtgccatcaa agaaggacaa ggaacgctac 420  
 ttcaagtag 429

<210> 29100  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 29100

agcttgataa aattttaaga aaataagtac tagctcaaat ggttaatagt ttctataatt 60  
 ttgaaaagta taatgtacat taacattagt gacaaaatag taaatggagt agttataccc 120  
 gatccaagaa atatttagca acattgggaa gattatgtaa ttcctttttt gtcttgatg 180

tttcttgaac agcaggatct ttccagatct catctaccat aggagcatac tcacgcgttg 240  
 cagcagggaa gaaggcctcc aaatctccga tggccataat atccagtaat cagtcagaaa 300  
 agtgcttgaa tctttgatta tagagtaaac actcaccttg ttttcgtcag ctgctgtctc 360  
 tgctaaatct attatacaat tagattcatt cacataactc tagcctt 407

<210> 29101  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29101

tctaaactnt gtacaagaat gaagctctga taccacttgt tagattagtt gcctcagata 60  
 tcttaagaag ggggttgaat taagatatca caaactattc cctaattaaa aattctaatt 120  
 tgattttaac ccaaactcta agattccttt taaaatgaat tcctaaataa ttattcaaat 180  
 taaacttact gaatagaagc aataagcaat aataaataaa agagttaaag ggaagagaaa 240  
 gtgcaaactc agttttatac tagttcggcc acacccttgt gcatacgtcc agtccccatg 300  
 caaccgcctt gagagttcca ctcaatcgca aaaacccttt acaagttctg aaccacacaa 360  
 ggacaaccct tcctttgtgt tcagatttct ttacaacaag agaccctcgg tctcttaatc 420  
 cctt 424

<210> 29102  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29102

gctgtgaata atagtcattg tcataaagaa gagaaaaagg tttttattta tacatgtatg 60  
 taaaaggaaa tgtgtataga agaattcttg cgtgtaaatg atgtgtggaa aggaattctt 120  
 gtgtgtgtga gcaacgagtg tatatgaaga aacttttgtg tgaactataa gtgtgtgttg 180  
 aaaaaaatga aaaatctttg aatgtgaata gggtttgtat atagactata tgacgtaaag 240  
 agaagagttc caatgcgtgt acagaaaaag tttgtcatgt ataagaatat agatgtacaa 300  
 agaaaggttt tcctcataaa ggaccacagg tgtataattn tgtgaatgaa acaaaaagga 360

aaaagaaaga aagaccgcga aggtcgacat gttatagtta agaagtat

408

<210> 29103  
<211> 425  
<212> DNA  
<213> Glycine max

<400> 29103

tgccgcccag ctgcccagg tgagttcagc tcgcccagct agttttgttg ctctctctg 60  
aagcaacagc ctcttgagg aatcttctgg acggcccaag tggcctggtt gctatttaca 120  
ccccctgtt tactaaatgc accccccttt ctattttttt gtaattcttt ttccgtaacg 180  
ttacgaaact ttacgaatct cgtaacgata cctatatctt ttccgcaagg ttacgaatcc 240  
ttacggatta tgtatttctt ctttttttagc ttccgaagaa gttacggaaa ctacggatt 300  
gcacaaaaac accacttttc gatttcggcc acattacgga atttcacgaa tcacgcatgc 360  
ctgcttcctt tcgatttctg agacgtctcg ggacttcatt tattgcacgt aatcaagtaa 420  
taatc 425

<210> 29104  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 29104

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aaataaaggg atttagttaa tgcccacctt tcacacataa tcaactcgga aaacaccacc 120  
cttcttaaat aagaatccta caattaacct taacgagaaa aaagttataa aggtatacat 180  
tatctaattc tacacactat ttattcttat aaaacactga ctcgagcgtc aacatcttta 240  
tgaataccct gccagagttc gactcatagt agatcatcat aaatattgaa ttctgcttca 300  
aatacttttt aaccttaggc tataatgcta aacaagtatt accttcaa at tcaaatcata 360  
atttattcta agtcataata t 381

<210> 29105  
<211> 277  
<212> DNA  
<213> Glycine max

<400> 29105

acacttttga ggactaaatt ttgtattttt atctttcagg aatgtatttg tcagcagagt 60  
gaaaaaatga aaaattaaac acatattata taacaaatat gcccttatac tgacaattag 120  
agatgacaac aataatttta gtaacaaatt catctctcta tgtcatgtat gttattttat 180  
taatggtgac ggacaaaagt taacagccag atatatttat cgcactttat acactttttt 240  
aaattctata tttttatttc tcaaagacac atttatc 277

<210> 29106

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29106

tatcttatga ctgagtcaat tcacctattg gatcaatgaa ccattgatct agtttgggtc 60  
aatttttatt taaaaaaaac aaaaatgatc ttgattaata tacaaaaaaa tgaccaaaca 120  
cgaaggagat cgtctctgtc tgtcaaattc acatgaaact tttgtttaat gaacctttgt 180  
ccctaataata atcataattg gcctccaagg accaaacttc actagcattg tcgacctcaa 240  
accaccatca ctccaccaat gtcattccacc tcaaaccacc atcattccac tagtgtagtc 300  
gactatctct gtctctttgn tggactcact cagttgaatg cagaaccaac atcaatcaac 360  
tttgcacgc aacctcccat ggcctccact gagagc 396

<210> 29107

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29107

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aagcatgtgt aacacttgggt gtaactttga tgaatgagag tcttgtgaga caaacttcaa 120  
agttcaactt ctctccctct tttcttccct caattttgtg ctccccctc tctctttctc 180  
cctctctctc tttcttttcc tccattgaag caccctctcc aagcttctta tccaagacac 240  
tctcttgggt gcgaagctcc ttcttccatg gcttattccc tagtggatga cgctccctc 300

cacctcttct cctttatctt ccactgcac tccatgatgg gaaatcacca ttgaaggacc 360  
 tcattgaagc tcanagatcc agtctccata gaagctccac aagcaagctt acataaaaaa 420  
 gaaataataa atcacaatta attaa 445

<210> 29108  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
 <400> 29108

ttgtgggttt aatatagaag tgagggacaa ggttgaactc cttccatata gggacctaga 60  
 tgagctagtc caactttgta taagagtggg gcaacaactt ataagaaagt cttcttcaaa 120  
 atcttatggc ttttactctt atccaaggaa ggaccaagcc caaggaattt tggggactgc 180  
 accttcaaaa cccaagaaag ataagggtaa gaccatagag aaatccaccc ctaagactag 240  
 ttccctaagaa aggactagca acattaaatg cttcagatgt cttgagagag gtcacattgc 300  
 ctctcaatgc cccacaaaga gaaccacgat tatgaggggt caagacattt atagtagtca 360  
 agaggagact acttctcccc cttccttttag tggaagtgaa gatgaagt 408

<210> 29109  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29109

tatagtgcga gggatatgaag agaaaatcaa ctaggattaa tanatgtttt atgagggggg 60  
 gggaaattga taaagggttaa agagacttca gtttaatact cacgcagtac attttttaaag 120  
 aggaaaaaaa ttcaagtgtg attaactctt aaaattaaag actaatccta taatggatat 180  
 atgaaagaat caaaacaaaa agaaatgcct tagagtttta atcaagagtc aaaaatttaa 240  
 attaatatgt tagttatata taattaaaaa aaaagagaac taaagtaa atgtacatgggt 300  
 ggattttgtg tcaacacaat agtttgtgta cctagccaat attaaattat acttcattgg 360  
 ttcttattga taagactcaa gtttaaaata atgtttgttc tttttttata agactcaatc 420  
 taccatgttt c 431

<210> 29110  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<400> 29110

ggcgaatcga gctcggggccc gtgatactct aatcagctgc cgcattgctat ctatattaat 60  
 gagcataata aaatccaaat agatatatta ttgctatagg gatgagaaga aatgatggta 120  
 aaccatattg ggttgcaata gggaagagga gaaagaaatg gaagccttat tgagacgac 180  
 gagtaaggca ctacaacaca ttataaacga tgagtagtag tcgatacaga agatacgtac 240  
 tactgtgtat atggatatat aattgacctt tgctgacgca ttaatatgtc tacacaatat 300  
 gtatcaagaa tgtgcttatt ttaagatata tagaagatta cattgccagc gtcaacattt 360  
 agataactaat ttagtatata tatatgtata tataatctata tgtatatata tgtatatatc 420  
 tctatgtata tattgatata tctatatata tat 453

<210> 29111  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29111

tacaaccata aaccccnngc aaaaggggca gnangcgnac acacgcgacg agcggcannc 60  
 cacaanncag cccaagaagg ccaaaagcac tagnnnccta agctgctcca agataagact 120  
 ccaagcatca attgatcacc ttagtctgac catcaaattt gggatgtgta aagaaactca 180  
 ttctcagttt ggtgccctgc aaggagaata actcctgctg aaaagtgcgtg gtaaagagat 240  
 gatccctatt taataagaac agacaacgac aatttttccc cttatgttta tcagaattaa 300  
 gtccttgac caagcttttc ctttaaggag aagaagaagc caaanattag gccaacgaca 360  
 atctaatect tgtacata 378

<210> 29112  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 29112

tatcttttat cattctcaat taggtgttgt aaaattggct gcattgtttc tttattaaag 60  
gaagagtaag cagaaaagaa ggggtgaataa cacattatta cctataatgt gtattgggcc 120  
ttccttgact atagtccata tccttgcaag attttaattt tagtttacct gcgcacatga 180  
ttgactttct atggaaaatg gtaataagtt atcataatag tagatagagt aacatttcac 240  
gacttattat gcaatgacaa taagtgtatt ttctaactag accattgtta tttgatttgt 300  
gccttgaaa gattagtatt accaattact gttaatgcat tattctccat atgacagtta 360  
tttatttgca accacagaag ttacattatg atattaaag tt 402

<210> 29113  
<211> 421  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29113

tcagaccaca acaacacana atctatgtat ccaaaatcct gcaanttttt ggatccncaa 60  
ggccngagaa gcgaaatcga gaatgggata aatccgaagc aaactctcac ctacaccag 120  
tctataacat caatttaaac ttgctcaaac tggatttaca cctaaaattc caccgaatca 180  
aaattttact tctcaacacc caattttacc ctagaaatgg ctctttgttc acttttgtca 240  
tttgtttttc tctcttgtac agcccaagct ttctcataag tcctaaatga catttcaagc 300  
taggattaac tcactttaac ctccaaatgc cactaaatcc agatttggcc ttccaactct 360  
cataacctct ctcttttgtc actcataaca ccatattctc acttttctaac cctaagttaa 420  
c 421

<210> 29114  
<211> 399  
<212> DNA  
<213> Glycine max  
<400> 29114

tttcttgtcc agagaaggaa tccacggagg aaatgcttac cacctcgaaa gactggaaag 60  
cggtttctaa tgactttctt acggcctcca cataaggcat agaggacggg cagctcacca 120  
agatgtcttc ctgcctgat acgatgacca gatgcccttc cactacgaat ttcaactttt 180  
ggtggagtgt agaggaaca actcccaccg agtggatcca cgggcgcccc aacaggcagc 240

tgtagggggg ggttaatatc cattatttgg aaggtaactt gacaggtgtg agggcctatc 300  
 tgtactggga ggtcgatctc tcccctaacc tctcggcggg tgctcgtcgaa ggcacgaacc 360  
 accatggaac ttggctgtag gtgggaagca ttgaatggt 399

<210> 29115  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 29115  
 gggggagacg ttagtgaag tgtgaagttg gcattttcta tcttaaactt aatggaattt 60  
 cccaaatddd gaaatdddgg tcttgtacga gttagaactg tgttccttta ggataccacc 120  
 agaccaaagc tcatttttaa tacagacaag aaatatttag tttatatatg atatttttaa 180  
 tataaatttt aaagagaata tgataaaaaa gaataacaat aaacataaac aatgaaaaac 240  
 tattaattaa aataatagga aatataggat aaagaataaa taaatatata acaatacat 300  
 aatttaataa attaatgaat taataataaa taatatattt caaattgtaa atttattaac 360  
 taattaatta attggtatta ttaatttata attggtgtaa tctttgaagt aagcagagat 420

<210> 29116  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<400> 29116  
 tctgcaggcg agctgcgggc atgcacgctg tatgatgggt atgcttgacg gaatgcccat 60  
 aatgtgtaca ggatatgtca tatgcccaca ccagtgtatc tatagaacaa tagatgatgc 120  
 tcttatgaac aataacctag ttcttgtctt ctgctgattt gttagcttat gcattctaag 180  
 gcatatatta attgaagtca tgccttacta ttgaacgaat gccactacct cggaacacgc 240  
 gagaatagta ccttgaacat ccattatata cctctggtac cccataccta t 291

<210> 29117  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations



<400> 29117

tgctccanag aataagtga ctacatcttg tttattttctt tttgcaacat ccccttttgt 60  
accccaaagg tgaagatggc tatagaccaa atattcttca taaggatcat ccaaatactt 120  
atgttgcaaa gaggaaaaaa gttatcatgc gtgaatgcaa tcaagggaca atgaagctca 180  
cacaatgcta cattcaagaa gattgtttca acaatggatt attaataaat attgtatgat 240  
tgagtctcaa aaactaaact atgttagaaa acatcaacag gaactcagag ttaacaagta 300  
catgaattta aatgcatgta ataatgagcc cctaaccxaa ggcaatgaan aaggtaagag 360  
aattatacta ccaagctttt ttgctggtag ttagagatat atggaacaac tgtatttcga 420  
t 421

<210> 29118

<211> 391

<212> DNA

<213> Glycine max

<400> 29118

tgtcttttct tgtttctctc cccatatgaa accaacattg ttcttgagca cttcattgag 60  
aggtgttgcc aatgtgctaa aatacttcac aaatcgtcta taagaacttg ctaagccatg 120  
aaaactcctc acctcgggtca cagacttatg tgtaggccat tcttgaatag ccctaactt 180  
ctcctgatca acttgcactc cttttgaact cacaacaaaa ccaagaaaca caacatgtgt 240  
agtacaaaag atgcattttt caagattggc atacaatcgt tcttttctaa gcacagtcaa 300  
gacagatttt aaatgatcaa tttgcaaata aagcgaagtg ctatagataa gactatcatc 360  
aaagtacacc acaacatact ttcctatgaa c 391

<210> 29119

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29119

actaactctt atctgtgggg gaatctctct tttttgtttt attagnaggn gcctcttctc 60  
acctattctc ctttatcttc cactgcaact ccatggctga aaatcaccat tgaaggacct 120  
catcgaagct taaagatcca gcctcataga agcttctcaa gcaagcttcc atcaagtgg 180

atcagagcac aagaacttca agtaggttgc tccttaaacc tgcattaatt tttagcttta 240  
 ccttctcctc cattgttgtg tcttcatttt ctccatgtat ctctcacat gtcttgtgtt 300  
 gaatgttgtt aacatgattt tttagaattt ccactgatta aacttgctat agaagctaga 360  
 ttngattgtc tatggtacaa atttcttgtt cttgttcttg aacctagagt t 411

<210> 29120  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 29120

agtgtcatag tcatagcatt attgttagta tttcttatag ccataatgg ttcggataat 60  
 gtttcatgcc aacacctgtg tttcttttca acaaattttt tgatttaatt tacaataatc 120  
 ttgttagtgg cttctgcttg tttgttagct taggcataga aaggcataaa ataatgatt 180  
 tcatgccaaa ctattgagcg aatgccacta cttgtgcaca tgtgaaaata gtaccctggg 240  
 catccattat agcctctggg atcccaaadc tataggctat ttggttttgg atgaattga 300  
 tgatgtcatt ttgagtaaca gagaccatca gttgtgcctc caccacttc gtgaagtaat 360  
 gtgttgccac aataatataa ctatggcatt tagaagaact aggggtggatt tt 412

<210> 29121  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 29121

tctctaaagc tatggatgag gaaataactt agaaaattct tattcattca ctgcctcagt 60  
 gcgccttatg cgctaagcga gtcttacttc gtgcgctgag caagttgtca ctcacactaa 120  
 gcgcgccaac cccaccccat tggctgaagg ggtctcgcta agcgagacag ttgcactaag 180  
 cccaacaagt tccatatttc aatcttaaca ttgttacata tttcaatgaa agttgccaa 240  
 tgtgcataga gatcttcatt aggtaatcct tcaaataagt tcccttgcac taaatgaatt 300  
 aaggaatgtg gatagttgat gttgttagct tgcacttcaa aacgtgcaat gctagtga 360  
 aattgtggta ctgaactact tgagtaaccc tcaagggtaa tcctctgggc atgctcttct 420  
 gccatggtaa t 431

<210> 29122  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29122

agcttgtaca acaagtaact gaatctgttt ttggtactaa atgaagtaac taactaacta 60  
 acttccacta atatataaag ttaatactca gaaggatggg atgggccttg attangccca 120  
 tctaattcttc cttattaaac tgattacaca aagcaaggcc caaattcgta gcccaattac 180  
 tcaagtgcgg aggttctgac ttccaagccc aatttgaccc tcaaaatgga agaattggac 240  
 caagcttatt tgtgacaaca ttgaagatat tgtttcttat ctttcaaggg actaccact 300  
 ctocatttgg agtccttttag tgtcctatat gccctgcaca agacagatag atcaagtaag 360  
 cacaaaaatn tgaaaataag ccacaatgat caattaagct caatca 406

<210> 29123  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29123

ggcttggggg gcttcttttg aggctggatc ttcgagcttt tattaggtcc tttaatggng 60  
 gntttccacc atggagatgt agcataacac aaacgacaag aggtgagagg aggcgccatc 120  
 cactagggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180  
 gcttggagag gatgcttcaa tggaggaaaa gaaagagga gagaaagaga gaggggggag 240  
 catgaaattg aaggaagaaa aaggagaga agttgaactt tgaattttgt ctcaagac 300  
 tctcattcat caaattacaa caagtgttac atatgcttct atttatagac aaggtagctt 360  
 gcttgagaag ctttcttgag aaaatttcct tgagaagctt ctttgggaaa acttccttga 420  
 gaagctagag ctt 433

<210> 29124  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 29124

agcttctata taagctgaac cattttatca ataaagacaa gttgagtttt attcagaaaa 60  
ttagagttaa tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120  
gaacaccctg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaag 180  
agtgattctt tccttccttt catcttcacc cttgttcttt caaaccacaa ttccagaaaa 240  
tccacctctg cccagaatta tctcgtggcc ataactccca ttttacgcac tcaaattaag 300  
tgattcttga gcctaaattg actttcaaaa cgagaccttt cacctcgtnn tggaatcacc 360  
tcattnggag cctgtagct tcagttattg ccatttctat atttct 406

<210> 29125  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29125

ntntggagta gaaacatggg accaactcat tntatttcat taattcgtat ctagtcaagg 60  
tctgagagac cgtacaagtt tcctagcgat ttctaattat gtgggtcatt aagtctatca 120  
tatgctgaca atagctgaga agcccgtgaa tttcttcggg ggcggagtag gtgtctgcca 180  
tcgccttggc cttggctaac aatcggggaa gttcttgact cctgttcaag gtaagagcaa 240  
accgatccat ccacatgggt gcctcttggt gtaaagagtc gatcaccctt cctctagcct 300  
ctttttccgc gtatacttgg gcatactcgt ccgcgaccct atgctcgtgg gccgtggcta 360  
gacctaactc ttcttgggtac ttggcgatga tagctagcat gttggtctct gtctcgcata 420  
aac 423

<210> 29126  
<211> 399  
<212> DNA  
<213> Glycine max

<400> 29126

agcttatgaa tttaaattgg atatgttatg aatatatatg aaaatatcgt tcttttgcag 60  
atacattcaa gttaaaggtc aagccaggga agacatacct tatgcgtttg atcaatgctg 120

cactcaatga cgaactcttc ttcagcattg caaatcacac cctcacagcg gttgatgtcg 180  
 atgcaattta tgctaagcca tgtgacactg acactattct cattgcccct ggacaaacct 240  
 gcaatgttct tctcaaaacc aaatctcact atcctaattg cacattcttc atgagtgtta 300  
 taccatatgc gactggacaa ggtacttttg acaactcaac tgtggctgct atccttgaat 360  
 atgaagttcc accacattgt gttcactcaa caacttcag 399

<210> 29127  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29127

ggtaaagaa aaataaaaaa agtaaccaa tattgaccnn ataggttatt cagagagcaa 60  
 tcaagaacat cttatgatac cttgtggact ttgtataatt ggtaataatt tgacctatgc 120  
 tactatttac aatggtagct ggagccatga acatttgggc aatttcaaaa acttgctcac 180  
 tttctattat agtaccaatg cctccaattg ctttcacaac agcttccactg cccaagtac 240  
 ttaatctaca gtatacaagt tgcctttca ctttttttgg ctctaaggag tttcatagc 300  
 ataatctgtc aatgcattga aatggtactt tgtaatatg gaaagcttaa ctaggtgttg 360  
 tcaaataaac aaaaagaaaa ttacttagca ttntccttgc ttccaaattg tataatcatt 420  
 ccttacc 427

<210> 29128  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29128

agcttagaca aatgtaaact acatccaaaa tgatttaaaa atcatccagc tttagatggc 60  
 tcactttagat atttcgtacc tatgttcttc ctcaaaatt cagacaaact tgcacaagca 120  
 gcacgccttc tttctaggca gtgaagataa tcattcacta gaaataaaaa aaaataaaca 180  
 gaaaactaat tagatcattg tgaaaccact gaacactgta tttttcacct tatcattttc 240  
 tttattattt tattatttat aagtcaccag gtctagccca aaaatatata ataaggaaag 300

aggaaacagt cagatccacc agaggttctt taatagattc atggcccaag cacaattaga 360  
tcttgacat tntattgatt ntattctgca tatctcccat taaa 404

<210> 29129  
<211> 409  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29129

tagaagagcg tcgaggagaa ggctttngtt ttttgtatac atcttaagaa aatcttcgag 60  
ctgtactagg catgatcgta agaaaatata aaattttaaa attgttttta gttttcgtaa 120  
cttaacgttt tttcattttt tggttctgta attttttttt ctaattttta tccttatata 180  
ttgatgtttt ttcaatttta attcttgtaa gttttttttt tcatttttta tcattgtaag 240  
tttgtatttt tcaatttttag ttttttaaga ttctaatttt tttatttata gtttctataa 300  
atttgtgttt acagaaaata aaattgaaaa aacataaacc tacaagaaat tagaatgaaa 360  
aaattgaact tatgggtatc aacaataaaa aaaacatgag aaaaaaac 409

<210> 29130  
<211> 384  
<212> DNA  
<213> Glycine max  
  
<400> 29130

ttgcttatga tcaacaaaat taataatcta ggtaataacc atttagttga aatgtctcca 60  
caaggcatat tttccatccg ccggtgatgg ctattggatt aaaccatcaa caaaacaatt 120  
ttttttcgca cttacagata gagcaatact catcgatttg ctccaagtag tgtaattatc 180  
accattcaat tgtttggtga ctaaactaac tctgcatga tatgaggaat gaggacaaaa 240  
cgatttgaac gatccataag gggattggta gtggctgtca tttgtgggta aattaaanaa 300  
aatcccaag acatattgct ctaataccat ttacaaatga caaaagacaa gacaaggaag 360  
atcagatgta ttggctcata tagc 384

<210> 29131  
<211> 437  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29131

agatactcag cttggaaatc atggaatcca aatttgntng acccaattcg ttcaattctt 60  
ttcttagaaa tgtgacctaa gcgcttgtgc cataatgctc ctgagtttgt attatcaatt 120  
ctacgcttag taccacacaa ttctgtatta aaggattcac cataggaagc tacactatca 180  
agtaaatata gattatcatt aaccaagagt gaagcagttc caacaatata tgaattaaaa 240  
ggtaacctaa acacattggt tccaaatgaa cacaaataac ccaatttata caaataagaa 300  
actgaaacca aatttcgtct aaatgacagt acaacaaaag tgtctttcaa atccaaataa 360  
aaaccaatac ataataataa tctaaagtgc cttatagctt ccacttccac cgatgtacca 420  
tctccaacat agatcca 437

<210> 29132

<211> 439

<212> DNA

<213> Glycine max

<400> 29132

ctcgtaccog ggatactcta actcacctgc cgcacgcttt cttttactta ttgtgaagga 60  
attgagtacc ttgagacctt ctctcctgat gagaaaattg agacaattcc agctattctt 120  
gcttaagact gcatcaattg ctggaaactt cagctacttg atgttaacaa tgcattcctt 180  
catggaatcg catctgagga agtctacatg gtccctcccg ctggcgtaaa tgagtcacat 240  
ccatctcaat gttgcaaact ccttaagtct ttgtatggcc tcatacaagc caatcgagca 300  
tggtatgaaa aatatccctt ttttctcttg tcttgtggat atcatccagc tcatgccgat 360  
catagcctgt tcatcaaac taatcagtcc aactctatag actttatata tttattgttg 420  
gcggcattgt gctaactag 439

<210> 29133

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29133

gaaactaagc ccgagagata aaccttcact ggggcgcaac tgtcttatct ttgtatcnca 60  
 ngaacnatnc ccacagcaat atgctattct gagagcttca attacagcca gcgagtacct 120  
 agatggggta agtgtacatt caatcaatac cctttaaaagc aaatgttttg attatttgta 180  
 gttatagcgt ctagatactg atgggtggctg ttttaagaga cgttgtccaa gtgctttgac 240  
 ttgatgcaag acatgatgag aatggaagca aaggagttaa tgatagatac aagcttttta 300  
 agcacagaaa ctccagtgag tatgttggag agaaacacta aacgacaaag aatttagtgg 360  
 tttatatatg ttgcagaaga aaaattcaat tntctcaaac ttaagaagaa gaaagctgag 420  
 ggaaaag 427

<210> 29134  
 <211> 400  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29134

agcttgtaca ctacaacacc aacaaagtcc aagaatccct ccataacaat gatgctcaat 60  
 accaacacgc tctttccac cttctctctg tctctcaggt atatttgcaa ttcatgcata 120  
 ttgatatgct catatgcaaa aactagtttc aaattttatt cttgcgtatg gtgtttgttt 180  
 attatatgca tagtttgta atcttcctta aaactttatt ttaatattaa tggatgtat 240  
 tgaatgtttt taatggttga gataggtagc actgacacag aagtgctgaa tttattggca 300  
 gttgaaagga gaagagatac ttgagcaatt cgaagcttct agttcttctg agccggtcgc 360  
 ttctataact canganacag anagtgaaaa tgaggatgct 400

<210> 29135  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29135

tcttgcgtag cccctcttgg tgctcagaaa atcccttatt tctattcctc ttattactag 60  
 ctattttgaa ttcttttagtt cctgaatgta caaccttcaa attgttgctc gtttccctct 120  
 ttgttttctg caaaaaagaa aatcaatatg aaacaattta ggctgaattg ttatcgttat 180



tattactcga accataagga ataacaacta aacaagtcac ttaaaatgta actttgaagt 240  
 taattggtat ttttttaatt acaagtttac ttcaatatct aattttttac tctacttagg 300  
 tcgttttttt aatatgaata tgaatttaaa ggtgatatac agataatata aatgacttgc 360  
 tagtcacaaa ttgcgatacc tatcattntt aattntaact tactttttata aatattaata 420  
 aat 423

<210> 29136  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 29136

agcttttctt ctacagttat gttcatatga ctaatcatct cattaaaaca agcatttttaa 60  
 atcatatatt tgctgccagt ttttaattatg caatacacat aactattaaa ttgttttcaa 120  
 aatcatttta acttgctcgtg cctcaaagtg attagacttg ttaggttccc acaatggatc 180  
 ccatcataaa actcatcgcg cattaaactcg ttgcccttaa agggctttac agttgtgtga 240  
 ttgtacagtt catagctcac aactcaatgc gtacaagatc tcaatacaca tgtatcttac 300  
 aattcaacac atactcaatt tatcacatac acccaatctc aatcacaatg ttataatacc 360  
 aacgcacat gttatcacat ctcataaatt atatacacat cac 403

<210> 29137  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29137

ntcaaccac ttaattttaa agagaatggt tntgatgttt cttttttaat tatntaagtg 60  
 cctagatctt caaagatgga agtcaaactt ttactttttt cttaatcttc ttgagagatg 120  
 ttcttattgc tctcatagtc cttggataga aggttgacct ctttctccaa cccttcaaag 180  
 aatccatggc cttcccaacc attatacccc ttctggaatc tccttcctca ttggcttccc 240  
 tcttaatcct cccttgccct taatcatttg gggggc 276

<210> 29138  
 <211> 399

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29138

tttgcattgt tgttttttca gcttttgaaa tatgtatttt tctcttttat tattctgaat 60  
attctttttg ggtacagcca ttatttataa tatagtatttt tttttactaa attcctttgt 120  
aattttaaa agattcatat tttcattgca tgggtcatgt tattcaatct catagagtgc 180  
attcttattt ttaatgtgct aacatattct cacctttcat ttctagtaga ctatctaagt 240  
tatttgaatg aagaaggact agctatattc ttagaatgag gctttgagcc taactcaact 300  
ttaaagcta gcttataggg tgagggttgt gccctccact tatatagtcc atcttggtac 360  
tatctctagc caatgtgaga cttgaatttt ctcatacac 399

<210> 29139  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29139

ggancnangg cagggatntc accagaaant aatgtttggt ttttacacnc naaagacagc 60  
cngccgcact caccacggnc actacgagca ccggggggang ccatncgggc tctgcaacgc 120  
accgtcaatg tttcaagctg ccatgaacaa ccttctcagc cctttcctgc ggaagtctgc 180  
gacagttttt ttttacgaca ttctgatcta cagcgaaatc ttcagtgatc accttcatca 240  
tctcgaatgc gttttcaact ctcttctgca ggctcattat tatttgaagc aatcaaagtg 300  
cttcattggc taacgccagc ttgattactt aggccacgtt gtctccggca gcggtgtcag 360  
acctgatcca acaaatattc aggtatcgt caaatggatc acgcctcgat cttccaagga 420

<210> 29140  
<211> 275  
<212> DNA  
<213> Glycine max

<400> 29140

atgcttggtc ttgatttttc ctaagttctg gaactagctt aaaacaataa acttggccct 60  
ctcttaattg gccttggggc tggcgaacct caaccaccaa agtccttttg gcacctacta 120

tatgtggact tgaccaacgc tgttattgga atgttgcaac aatTTTTTcaa caccttattc 180  
 acacattctg ataagtgggt tgccatgtga ccatatcgtc ctccatatgt atgcgacgcc 240  
 atgctccatt tttccttaga gattcgatca atcca 275

<210> 29141  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29141

gcttgttaga caagtggcct tagaaatctt aagaagtgtt gggTgggttg aattaagatt 60  
 ntacaaacca ttccccaatt aaaaattcta ctttgatctt aatgcaagtt ccaagttccc 120  
 ttaaagatga atttctaaat gatgattcaa attaaacaat ctgaatgtaa atgttaagaa 180  
 acaataaata aaggagtTta agggaagaga aagtgcaaac acagTtttta tgctgggttcg 240  
 gcaaagttcg ttgcctacgt ctagtcccca agaaaccac ttgggagttc cactatctcg 300  
 canatccttt acactttctg aaacacacaa ggaaaacct ttctttgtgt tcagatactt 360  
 tataacaaga gactttcagt ctcttagccc tttgattaga aagagaagaa gaagaagaag 420  
 atg 423

<210> 29142  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29142

acaccgaaa gaaaagaaag acggagagga gaatcaagga aaaagaaaac aaccaaaca 60  
 agcttgagat cgagcctgca aaccaaannn nnagggncgg ggaaggaggg agaaaaaaaa 120  
 gtttttgagt gagagaagag aaannagggg ggggaaagag gaagaaaacc caccaaagc 180  
 agagcaaagg acagaaagaa aacgaaagaa agacgaagag aaaaaggaaa ggaaaagagg 240  
 aaagaagaaa gagaaaagga agaaaacagg gaaaaggaag agaagcaaag gaaaaaagga 300  
 aaagaagga aaaaaagaaa cgaagggaag ggaaaggaaa gaagcgaagg gaacaaaaga 360  
 cacggaggca agagaaagga aaaaaacaag aagaaacgaa aagcagaaca ggaagaaaaa 420

aaaaaagaga gg

432

<210> 29143  
<211> 322  
<212> DNA  
<213> Glycine max  
  
<400> 29143

agcttactca gaatcgccaa tcagtggact ttgttgttgg cgattttgtc tgagctatca 60  
tgagtaaaga tcgtttaccc actcattaat acaactagct tattgctaga aaaatcgagt 120  
catattcata gttctaatagc tttcaatggt aatttcctta ttgtggtaat gcttcttctg 180  
atgatgagat ggcttttgat ctgtggatga atcttctcca ccccgaaaag gatcctgcag 240  
tgcaagattg accaaagttg acccaaaaaa gtcattcgtg tccatttttt taaaaaggag 300  
tacacttttt tgattggaaa tg 322

<210> 29144  
<211> 433  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29144

ctataacana tctaaaacac atagtttgaa accaaaggga gtactatttt ctgcctatc 60  
ttttctcttt tttaaaagaa caagaaaaat acagaggaag ggaatccctg gaggaacca 120  
ggaagaacaa aaaactcaga attgaaagaa catgcaatgg tcctcttgat tgcccatat 180  
ttcaagcgta atatcgttta actacatcgg agttcacggg cgagggcaat tcctcgccat 240  
ccatgtgggt gagtatcaaa gcacccccag aaaaggetct tttcaccatg aaaggtcctt 300  
cataatttgg ggcccacttg cctcgtttat ctttaacage gtgggacatc ttcttcaaca 360  
cgaggtcccc ctggttgaaac ttgcgcgggc gtaccttctt gccgaatgcg ttctttatcc 420  
ttcgttgata caa 433

<210> 29145  
<211> 53  
<212> DNA  
<213> Glycine max

<400> 29145

ggctgattgc tttttattta atgagctcct gccagaatcg actagcacag agg 53

<210> 29146

<211> 260

<212> DNA

<213> Glycine max

<400> 29146

agctttctatc tataggaggc ggaccattcc aagtgttgga gaagatcaac gacaatgcct 60

acaagattga cttgcctagt gagtataatg taagtgccac tttcaatgtg tctgatctat 120

ctcttttttga tctcttttttg atgcagatgg aggagccttg gatttgagga caaatccttt 180

tcaagaagga gggagtgatg aggacataac caagggaag gaccatgaag cacttgaagg 240

tcccatgacc agaggcagac 260

<210> 29147

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29147

atccttatgg cctgcctact gacttcaccc cccngcctc tttggattat nnaagccaag 60

ctcctacttt ngaaggacaa ctcccacctt atgaagacta tcccggacaa gatgatgggg 120

aaggagatac ccattctggc cccctgctcc acctcaaaga tccatccccg catgaactac 180

cccagctgaa catagtccac catatccccg cctcatccac acccataaaa gaatttgttc 240

cctttgcgga agataaggga aagatcgagg cgcttgaaga gaggttaaga gcagtcgagg 300

gcctcggtaa ttaccatttc tcggatttgg cagatttatg tcttgtgccc aacatagtca 360

tccctcccat attcaaagta cc 382

<210> 29148

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29148

agcttttggg tgtaatactt acttggttgg gatgaacaaa agcgcgaaac ggaatcaaaa 60  
aatgcgtaaa atgatgaccc tagggctgca aactcgtaaa tcccgtgggt atggcttttg 120  
aaaggggggaa aagaagtttt tgaatgcaaa aacgtccccc ctttcgtcat tcttatattt 180  
tggtgcaggg gtggctcgcc caggcgagct aacgtgcatt tttttttttt tgagaggaac 240  
attaaccatg tcccctcctt ccttatgggt tagcatcttg cttaacttga acttacttaa 300  
gttagagttg ggcattgatt acttatnnt ataacaaaca aaaagtaaaa gaaaactgcy 360  
aatacaaagg atacggggct gccttgcagc gacgttctcc gc 402

<210> 29149  
<211> 411  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29149

cgagaagagg aagcgnngaa gggtgaaact nctgctntt atttttgacc acagagnngn 60  
acctggagaa atgncgcgcg ggncaagaga ccccggggac gncagggggg gngctatngc 120  
ccaaaaccaa gctggaccaa tcccgaccca acccaggcat agtcggtcag tgagaacctg 180  
tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaca aagaccacaa 240  
aacaaggagg cttgtggtgg ctggccagct gtgaaacttg attgatatgt gagatatggt 300  
ctctgggaat cgattaccaa ggggtgggtaa tgcattacaa ggctcaaaaa tgaagacagg 360  
gggctaagat ggtctctggt aatcgattac caggggaatg aatcgattac c 411

<210> 29150  
<211> 385  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29150

agcttctagc tttatggact taccttgaat taattccttt gatagccctt ctgagccttg 60  
tttccctttc cttgttttga agctcactac aagccttaaa tgaaaaacca tgatatcacc 120  
atatacctaa ggaatttttg agctttggaa ttgttttggg aataagtgtg gggggttttt 180  
gtttcattgg ataacttgtt atgttggcta tgcttcatga tgtatttttg gccatacttg 240

atgtacattg catattggtt aaatggttga catgctgaat gaaatgttgt ttctcaaacg 300  
 ctatagagta anacaaaaat aatcgaaaca tgagaaagaa aagcaataga gttgagtga 360  
 taagatctta catggacaag aatga 385

<210> 29151  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29151

gcancaacaa gaancaagcc aaggctattg tgcaagcaat caatacggca aaacacacaa 60  
 aaagattatg atgatggatg gctcaaattc tcacaaaagt aaacttatca ctttcaaatt 120  
 gagctttcaa aactatcatg acatgtaaag gaaaaacaag gatttcaagt cacaaaatgt 180  
 caagagactt tcattttcag aacaattacc cattacttga acatataccta taattcaaag 240  
 acaaacatgc aaatttaaca caacaaaact aacaagatta aactagaacc caacaaaact 300  
 aacaaaatta aactaattta acacaactaa caaaaccata accaaagaac actcccncca 360  
 tacttaaaca acaca 375

<210> 29152  
 <211> 233  
 <212> DNA  
 <213> Glycine max

<400> 29152

tgctttttga acgcatactg tggatacaac tagatccgga cgaacgctcc agatgaggag 60  
 aaaatggaat tcatcactga agacgctaac ttttgatata gggatcatgcc cttacgccta 120  
 aaaaatgtag gcgctacata ccagagattg atggaccaga ttttcaaaca atagatggta 180  
 caataagttg aggtctacat tgacgacatg gtgggtcaaat cccatagcat acc 233

<210> 29153  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29153

tttcttctgg tatcaattac gagcgtctcg atatactacg ggacataatc ggacatccga 60  
 gtaaaaagtt attatcggtt gattaggcta agagcttggtg ttttgaattt cgagcgtctt 120  
 gatataattac aggactcaat cagaaatccg atttaaattg tattcattcg gacatccgag 180  
 taaaaagtta ttgtcctttg aatttgctac gagcttccgg tttcaattac ctgcatctcg 240  
 atatactatg agacacaatc ggacattcga gtaaaaagat atcatcggtt gaatntgctc 300  
 agagccttcg ttgtcaattt cgagcgtctc gatataattac gggattcatt cagacatccg 360  
 agtagaaagt tattgtcatt tgagtttgct catagcttct at 402

<210> 29154  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<400> 29154  
 tgcttcttga aaatgggaga attgacctag gctttggctt ttaaaaaaac acttattgta 60  
 ggtgaaatgc ttggaccaat ggaatagcaa ggaatcctta tcttcttaat ataagcactt 120  
 tgaatgacca ttaaaatgac taattggaag cttggacaac tcttgatgtg ctctccacga 180  
 tctgcgccat gccttatatg gcttcttga cttttctaac actaactata aaacgataaa 240  
 gtagagtctt gccataaatg gtaaaaattg tttttgc 277

<210> 29155  
 <211> 548  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29155

cccaacgcgc gctacactca gcaantttga atantcncac tatagntatc atcgcgatct 60  
 gatgatgaca aacaanaann acaaaaaaaaa agaaaaattg agttgtntca atgcnatata 120  
 caggcgaatn gagctcggga cacgggatac tctagagtcg agctgcacgc acgcatgctt 180  
 ttaattctta gtcgatgacg aagcacgatg aagtgaacca cgatcacaag caacgtatcc 240  
 taacgaccgg ctggagacaa aaatgaaaat acgaaaggga tggaaaagtc ggagggccta 300  
 acaagcatcg cacatgtaac gacgtcacct cgtcgcatca tcttgttatg caggaaccga 360  
 cggatggcta cttaaggacc ttcacctcaa gttcctttgc gcgatccatg ccctgaacac 420



cacttggtggg atgggaatct gggcacatgg atacatcaag caatacgcga tgattctgac 480  
 attacacaat caattccaaa gaaacaggca acggcagaac gtgatggcta cacaatgaac 540  
 gaatgctg 548

<210> 29156  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<400> 29156

tttattgtgt tctaatacag aatttctcct ggcgatttct ctgaagtttg tcggacctta 60  
 aaaaagggtat attatgtgca tgtagaagt gatgtgactt ggccttgggt gaactacaag 120  
 cattatcgat aacattagt tattagtttc ttcattcttt tataatatag gttgatcaga 180  
 gtttgtgtga gaatatgatg aactacaagc atttaccacc tggtactatt tcatttcagc 240  
 ttcttaaaca gctacttcat tttttttatt tggatatttt tttgctcaaa aacatgttga 300  
 taaaataaaa tttgtttaga taatatgatg agaatatgat gaac 344

<210> 29157  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29157

aagggcagga gcaaaagggg ggcccaaat aacaacatac aagnataggn atnaaactct 60  
 caggagaaaa aaaatctatg cactgatcga tatttacagt ataataagat ttatacaatc 120  
 attcaattac aatcaatcat gtataataga tggtcggatg attaaaacaa ttataaagta 180  
 atacaaacga taattttgtg ttttaactaat aatataaaat tgttttacat tatcaatgtg 240  
 taggcattac agtctacaag attatattta gactgtatat gtgcatcttg agaaataatg 300  
 agtctttaat aattatggat attttgact 329

<210> 29158  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<400> 29158

atcttttacc tcacgtctc tcacagtctt tagatttggg agccaatcca atccttgtgt 60  
tcggactctc agccacttat gatagccgcc gatgatccca ttacggcttc ccctaagctc 120  
tctgtccttt cttcacgccg catcccatgc cttgcgaact ccttatggta ccctcgcgtt 180  
gtggtcactg aaaccccggtg cgatgaaagg cgtgatgcta tcgtctgatg gcactcctct 240  
catgaggtag ccaaacggtc ttatggcgag gacgggatta taatcaatac aaccccttgt 300  
tccatcaagg gaaccttt 318

<210> 29159

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29159

ttccccagcc ccttctcatc aatggacgcc tttttaagtg ncttacaagc gaaagcgagg 60  
gnaaagggga gatcacgcc tctcctctct tgaatttcta tcgctctccc tctcactctt 120  
tgactgcect tctaccttct tcagttatcc ctogatatgt ccttcttttg aacctccct 180  
tgacacccat ggttgctact ccattcacgc gtggtgactc ttccgtaact gaacaccatc 240  
gatttgtcaa gagcctcaga ttcacatcta agtgaaacaa aacgacgtcg tcttggaaga 300  
tgactcaat tctgaattcg caagaggtgt agatgatagt gatgctgggg ttgaactcgt 360  
tgatgaagga ttggaatgag ttacaacacg actctgagga gttaac 406

<210> 29160

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29160

agcttttctc ccacgaagag tctctgcggg tctgacaaaa ttgggcccac ttctccttgc 60  
taatgtcgta cttttcgcat agtgtcatcg acactttcct tgtcggctac aagtgcctat 120  
ttcaacgtca aatcagactt aaattttctc cattgctccc ccacagtctg aagtattttc 180  
ttttttgtcc tcagatcaga tgcttcaggg atatcanatt caacctaaca aatggaaaat 240

cacattctat tgttactaaa ttataatttg attgttaatc aacaaaatgc anaatttaac 300  
 taaaatacta gaatatactc ccatatcaaa tcctnttaag cagcagagac ttgtttccat 360  
 agtcgtatgt cacatca 377

<210> 29161  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 29161

agcttccatc attactccac ctccttttgc aacagattgg atagtggaag ggccactttg 60  
 ctaaaatcct tgataaagcg cctataaaac cctgcatgac caagaaaaga acaaacctct 120  
 cgcacgcaag aggggtaagg caattgtgaa ataacagcta taccttggtc taccatgaag 180  
 tgacattttt caaaattcag cacaagggtta gtttcaatac atctactaag aactctatct 240  
 agactatcca aacatgtatc aaaagaggat tcataaacag taaaatcatc cataaacacc 300  
 tgtatgcaac tctctaaaaa atcattgaaa atgctaagca tacaccgctg gaaggtagca 360  
 ggggcgttgc attggccaaa gggcatcctc ctatagacaa aagtgcctg ggg 413

<210> 29162  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29162

tggaaggtag tcataacctca canaatatat gtatgtgtgt ttatgtagtt agataccttg 60  
 gatatgcatg tatataacaa acataacctca caaaatatat atatgtatgt ttaggtagca 120  
 agataccttg gatatgcatg tatatagcaa aaatatctca caaaacatat atatgtatgt 180  
 ttaggtagca agataccttg gatatgcatg tatatagcaa aaatatctca caacatatat 240  
 atatgtatgt ttaggtagca agataccttg gacacacatg tatatagcaa aatacctcac 300  
 aaaaatatac atatgttttag gtagcaaaat acctcatgga aaaagaaaaa gagataaaaa 360  
 agaaaaaaaa ataataataa gttgtctagc taaaaaaaca acatgcttgt gaaaagagat 420  
 aact 424

<210> 29163  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 29163

agcttgtaca tatcacactt gtaaaaatta ctgagaattg gttactttga attctcgagc 60  
 tgaaagtttt actgaatttt ctagacatct gaaaaaaagt tataaaaaaa gaaccagggtg 120  
 gtttggataa aaggaaaaaa taataaaaat cacacaagtt ggcagaaaaa tcagtatcca 180  
 aaaaaaaaaa gagtgaagg gaagtgtgct tgttgttttg gctgaaaatt tattctataa 240  
 ttgtgccta tgttatacca atcttagttc cgaaatttca atagaaaatt agtttgaaaa 300  
 caagtgccaa agctagaggt ttgttgagtc ttttttttat agtttttttt actctactct 360  
 agagccattc taagtttctc tttagatcct agcttgcttc tatgtccttt 410

<210> 29164  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29164

tctcgcccaa ttntctataa atagggggag aagtgaagna gtaatggttc agccccttag 60  
 gcacttctct ctctttcgaa tttgcttagg aaaattgttt cegtgaagaa aatccaaacc 120  
 aaggcgcttc cgtaacgttt cegtgggtga tttcggaag gttttcgacc gtacttcgac 180  
 gttattcatt cgttcttcat cgttcttcag ttttcaacgg gtaagtacct taaaccaagc 240  
 ctttcaattc attctatgta cccgtgggtg tccacatttg gtttcatgta tttttattct 300  
 cgttttcatt tactttttat accccctttt gacgtgctta agccatatat ttaagtaatt 360  
 tctcgcttaa cctaaaaata aaacaaattt ccaccgatcg tttgaattgt atcatccgtt 420  
 aatttcg 427

<210> 29165  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29165

agcttcatgt tttagttaag cattttctac taaaatatta atttggtect ctattttaatt 60  
 aaataattta atttattatt ttttattatt aaaattttta atttaatccc ataattttta 120  
 aaattattgc aatggcatcc ttttcgatta attacaaaaa acgacatcaa cttcttgat 180  
 acatgataca acaaaaataa caacacatat ttatcacgca agacacctta attaaaaaaa 240  
 attaaaggaa ataattattaa tggaataaat cgtatccata gaaaaaaata ttattttgtg 300  
 tgtactcaac ttttcaatga agatcagtc tcaactttta ctaaactatt tcatataaat 360  
 attagataa aaaaatatta catcagctnt gataataaat aaattcat 408

<210> 29166  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 29166  
 tgtgactgtt cgaaagcaaa aagatgaaac tattgcagct tattttattt tgatcaaaac 60  
 tcaagaagaa actcttgag ctgcgaaaat tattgctgca cctttagtag aacaattaca 120  
 gaaagagatc tctccaagaa aatcaggcct agttatttgc agaccccaaa gttttgatca 180  
 agaagcacia caaaatgaga cttgtctacc tgccctgaac atttttgctt gagcaaatta 240  
 cactcgcatc cctgagggc tagcgcttat tacactcaac ctcaactcct ttttttttat 300  
 catatacaag actccattgt atttttacca tccattacac tgtgccctg tttacgctgg 360  
 aatttggtta acaaccgcta gtctaagtta attgcttgcg agatcaacta gtgaatctca 420  
 ggagcatgg 429

<210> 29167  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29167

agcttgactt tggtttagac atgattggta catgatttgg gacttgtagg atttgatttg 60  
 ggcaagattg gttgaaggga agtgtgattt tcgaaatctg cacttatgca gaatttttgc 120  
 tgtgaaattg tgcagcagaa ttttgcacaa gtgcagaaaa atgcttgtgt gtggttggt 180

gtggaaagtc tagtgcagaa tgagttctgg atgttttcta gtagatccca acggtcacaa 240  
 tgtaggctta tgtactagag acttccagta aaattttcga gtcgatccaa cggttaacga 300  
 attggatcga aggaattggt actgggggtct ttaagcgaga aaaagctgtg attntgggtg 360  
 gtgtttgagc acagttttct gcctttgctc tgttttgc 398

<210> 29168  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29168

ggtaagctga aacatatcaa gaaagtttcc cccaaaactt tgattataga gaaaataaaa 60  
 aacacaaaac attaatatag cattgcttct tcttagataa cataaaccaa tgaaaacaac 120  
 ttgctttgct gtccttttga cgggtgtggtt ctttggatta aaaagcttaa ttttatttgt 180  
 ttctttctta cttttgatat atcgtagaaa ccttgtttac ctgcatgcat tggcagttca 240  
 tgtaaatctt ttatttgctt gtaaaaaatt ctgtggtctt tttgtcatcc ccatanggaa 300  
 atggagtgat ggatgggctg tgataagagt tgatattgga taaactatnt ggatacagta 360  
 gtttcagcta tttaatcttg ccgtcatgct gtggcacaat tggatatctag tgcttgtttg 420  
 gatgacttat 430

<210> 29169  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 29169

agcttctcaa ggtgtacgga gactcgacat tggtgattca ccagcttaga ggggaatggg 60  
 agactagaga ccacaagcta ataccctact aggcctatat caaggaattg gctggtttct 120  
 ttgttgggat ctcttccat cacgttcccc gagaggaaaa tcaaatggtg gatgcgcttg 180  
 ctactttagt gtccatgttc cagctgacac tacatggaga cctaccatac attgagttca 240  
 ggtgtcatgg cagaccgca cattgttgtc tgggtgaaga agagcaggac agtaagcctt 300  
 ggtattccga tatcaagcgg tacgttgaaa gcaaatagta cccaccggag gcgtttgaca 360  
 acgacaagag gatgttaagg agattggcag atggcttctt cttg 404

<210> 29170  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29170

tntgaaaaac ctcatgacag aacattgaca aaggaatcat ccttttactc taagaaaacc 60  
 acaatctagt cggaaaattg aaatatgggg aaaaaaattt agaaattaga ttttcattta 120  
 attcaactat aaaaattaac tcataaaata agtattaccc cacttatata ttttattttg 180  
 atattagtta atgtaagact ttattttttt caataaaaac ttatgtaaatt ctaggggatg 240  
 atcctctcca ccaaaaaaag taatcttctc tacacacttt ataacattgg attaccaag 300  
 tgcttttctc taattttctt ctactatctc tatgttacca aaacaaaaaa cataattata 360  
 tttgaacact tttaaatcct aaatacttca ttaaaaactn taattttctt ttatcttttt 420  
 ttt 423

<210> 29171  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29171

agcttattct tataattcat gctaaaaggt gcatagaata aaaccaatta ggacactaaa 60  
 gaattaaaca tatagaactt cttaatgacc tcaaaacata gactccgtgg agataatgct 120  
 tctcagtatt ggcggccacg ccaagtgcaa gactgcgagg ttgtgttagg gatgggagcg 180  
 acggcttgaa atatgtgtat atcacctacg tgtcttgtac gacggacatt atacctcact 240  
 catccaaacg agtagtgtat atcacctacg tgctntgtat atacaacatt ctttcatatg 300  
 acacattata ttccaagcta tatattatca gcgagactct cgtaactgac ttagctgcta 360  
 tgtagctctg tgttgacaat aatacgatag catctantac actag 405

<210> 29172  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 29172

agaaactcag ctttctttca caatcaatct gtctactaac taacaannnc ttantgcaag 60  
ttctcattct tgttctttct ttgcctaaca tacacacttg ctcaaactca tgaaaagaaa 120  
caciaactca atcacagtca tgcattcaat tcaaaaccaa atcatacacc aattttcaca 180  
caaagataaa agtggtttat tgccatatca tcaaaatcaa gtcaaactgt tccatatact 240  
tcagaataag caaaccaact acccataaat aaaactagca gtgtatacaa acataaaaga 300  
aatactgtac tgaaaccgta atcataataa taataatcca aaaagcaaaa agcatcatca 360  
ggaatcaaca atgtcaagag tgtataaatt agggaataag tgagagcaac aacttctcca 420  
gatgacgaat aagaaagatc 440

<210> 29173  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 29173

ttgcttatgc atgtctagag agttcttgag agagaaaggt ccaagtttca gagagtttga 60  
gagattttgt tatgtgaaga tctgcagaga ctagagcttg aagaggaagc cgccctgaga 120  
gcttgagatg agtttgtgag tgattgtgag gtcttagagg tggaggagac atccccacta 180  
cttgtatttc tgtaatgttt tatctttctc ttgtctttgt tgtaaaggaa gcttcccagt 240  
tatggaaagc taaatcctct gttggatttt ccttgtaggt acttgatgta aatatctttt 300  
tatctatcta atgatgtttt gtgtgttctc tatgctatca gtatttcatt atagtatgct 360  
tttaccttga tcacgtagat gcatgc 386

<210> 29174  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29174

actaagctta ggctgctcga ttgctccagg ttgctgcatg gattggtata tgtctgtatg 60  
gnggtcagca gaggagcaca aaccacaaac ccttgcaaca ggtatagatt tctgattcaa 120



ggccagctgg gttaccaagt taaccaatgc atccagtttg ccttcaagct tcttagtctc 180  
 agatgatgca gctgagtttg tagctacctc atgcactcct ctaatgacta tggcattatt 240  
 tctggcgcta aactgctgag agttggaagc catctttctca attaaatttc tggcttcagc 300  
 aggagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc tctccatatt 360  
 actgagtcct tcataaaaat attggagaag aagctgctct gaaatctgat ggtgagggca 420  
 actggcacat ag 432

<210> 29175  
 <211> 404  
 <212> DNA  
 <213> Glycine max  
 <400> 29175

tagcttgcat tgtgctaagc ctaaagaact cctgttttg aaatattttg tatttgggct 60  
 aagcgcgcaa gggcagctgg ctaagcttgc atgtcgcggt aaacctaata acatctttgt 120  
 tttgtaatat ctcaaattgg gctaagcgtg caggcacagg ctaagcgagt catgcattcc 180  
 cggtgaagcct gtggtgctcg ctaagcggat tttgcaggaa atttctctct gcaaaactct 240  
 ctaagcccta tgtggcatgc taagcccaat aatatctctg aagttgcaat ttcatttttg 300  
 ggcttagcgc acaagtttgg gcttagtgcg caaaaaaaaa aatcaaaatt tcttgtactt 360  
 ctatttttgt atgtctcta cgcagcaagc ttagtgcgca ctta 404

<210> 29176  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29176

tataagaaca aaattgccgt aatcatttcc aaatangctt gngatttagg acgcatcaac 60  
 aagaatcaag ccgaggctat tgtgcaagca atcaatgggg caaaacacac caaatgatta 120  
 taatgatgga tggctcaaat tctcaciaag gtaaaatcat cactttcaaa ttgagctttc 180  
 aaaactatca tgacatgtag agaagaatta aggatttcaa gtcacaaaat gtcaagaact 240  
 tttattttca aaacaattac ccatttcttg aacatatcct ataattcaaa gaaaaacatg 300

caaagtcgta cgtgcacaca aaattgaccc aaaatattaa actgaaaatc cgacgaaact 360  
aacaacatta acaaattaac acaactaaca aattaacaaa gccaacataa ctatcaaaac 420  
caaa 424

<210> 29177  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 29177

agctttatca tgcgtcacctt ttaaacattg ttgtgcaatc tttcaacata accatgcaag 60  
cagctgcata cctatgcaac ttgtctaag tgaaaaaata attgggatta attcatccct 120  
ttcgcaactg ttaaattgtat gttatgagtc atgacaagat tctagtcagc atcctttctca 180  
gagtttagtg ttcgtctttt tcaaaagagg ttttctttct ctcttttctt ttttttgtgg 240  
attcgtgaat tttttgttat tgatttttta tgtttactta ttgttatgaa ttaccaaatt 300  
cgtaactaat gttatgatgg gtcctatata tctcgatttc gttgtgtatc tagtttaaat 360  
atataatgga atcatgattc tattaggagt gaatacac 398

<210> 29178  
<211> 390  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29178

ntgagccaaa atcctgactc accataaacc ttgtctcagt gngttatgtc aatccttacc 60  
ctcggagca aaaaaaaaaa gaagaaaagg aaaatttcca atcaaaggaa aaaatagagg 120  
aaaggaaatt cccaatcaaa gagtgggaga aagcaaaaag aaaagaaaga aaattcccaa 180  
tcaaagaatg ggagaaagaa aaaaagagaa aaggagaaga aggaaagaaa gtcctgatc 240  
aaggatcgaa agaaaacaga agaaatgtgc agagaggtct ttggaccaga caatatctga 300  
acaatacgga attgtcacca aatgaacaaa agaaagaaaa ggaaaccata acctannagt 360  
ggtctttctta ccaacaaaaa tcctgtgcgt 390

<210> 29179  
<211> 393

<212> DNA  
<213> Glycine max

<400> 29179

atcttgtagc accacttcac cctaccttgc cttttgagag cggcaacaac atccatcgtg 60  
gtacctgtct tccatttaac atgctcagtg taagtaacaa agtaccgcag accatccctg 120  
agaaagttct taaagactct acgagccaaa caacgaatcc cgagtttcgt aatgtttctgc 180  
atgttgctgc acaacaccac cttgtgcccc ttggctcctc ccttgcattc ctcccatgac 240  
caccgtatcg gccgctgtca cctccaccac caccaccgaa gccatgcct ccaccaccac 300  
cacggccaat gcgggtttgc acttcatggg tagtgatggt tggccatcaa ggtcttcgcc 360  
gtgcaaactg ctgttcacaa ctctcgtcc ctc 393

<210> 29180  
<211> 416  
<212> DNA  
<213> Glycine max

<400> 29180

tattccaggg acatgttatt attatgcaaa gccttcgttg gtagctcctc caggggtccat 60  
tctgtcagta gagcagttcc ttgagcaggt ggccttgcct agagctcaac ccttgattat 120  
gagaactggt ggaaggtttg cagcccaggc acctcaacaa gagagatcca acgaggctac 180  
tgctcctcct gagcctacac ctgcacaggt tgaaccaatg ctagctgac caccattctc 240  
aatggcaaat ccattctctc ccaaacttga agtagctccc tcatcttcac ctattattat 300  
catctctgaa gactctacaa agtcacgtc tggagaagat gttactctct ctgattcccc 360  
tattttccat ctaataaatg aggaggatgc tcagactcgg gatacccagg atctgt 416

<210> 29181  
<211> 367  
<212> DNA  
<213> Glycine max

<400> 29181

agctttcatc tagccaagtt tatacaaagg tgttacaaga gaacctaacg attcctaatt 60  
atatgggcca tcaaattctat catgtgctga cagtaattga ttagcccatg aatctcctcg 120  
ggggcagtac acacttcggc catggctttt gctttggcta acagacgcgg gaggtcttga 180

cttcattca aggtcaaggc gaacctatcc atccacatag tcgcttcttg atgcaacgca 240  
tcaatcacc cccctcttgc ttctttttcg gcatacactt gtgcaaaatc ctccactagc 300  
ttttgttcat gggccatgga ctggttcaat tcttcttctg attgccctat gatagctagc 360  
atgcttt 367

<210> 29182  
<211> 420  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29182

tcaacatcag accacttcca ggggtgctggt tcttttactt ggatttgatg gggcctatgc 60  
aagttgaaag ccttggagga aagaggtatg cctatgttgt tgtggatgat ttctccagat 120  
ttacctgngt aaactttatc agagagaaat cagaaacctt tgaagtattc aaagagttga 180  
gtctaagact tcaaagagag aaagactgtg tcatcaagag aatcaggagt gaccatggca 240  
gagaatttga aaacagcagg ttactgaat tctgcacatc tgaaggcatc actcatgagt 300  
tctctgcagc cattacacca caacagaatg ggatagttga gaggaaaaac aggaccttgc 360  
aagaggctgc tcgggtcatg cttcatgcc aagaacttcc ctataatctc tgggctgaag 420

<210> 29183  
<211> 391  
<212> DNA  
<213> Glycine max  
<400> 29183

ttctttccaa ccaaattcct gatagaggcc catttaatac ctatacccag ccctctaata 60  
ttataggata agatattcat gtatgagctt tctattacc caactccata gcttcccttt 120  
tgtctctgga ttccatatta gcatagtgtt gaatacaatc agaattgttct gtttcagcct 180  
ccatgcctat tctttttccc aaattctata gttgatgagc ctctccatc acctctgtgt 240  
tacatataat cttacttttt aaccttctct ctgcttcaag atggctctag ttatgggcct 300  
tgtcacattt atcaatagcg gcagccaagt cattatcttc ttcttgtagc tgaagttgat 360  
cttccacagg ttgcaacata cggagtttat a 391

<210> 29184  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29184  
  
 tcaagttgct aggatagcaa cgtgancggt ccttcagttc gtcttgagat gaaagctcca 60  
 acaggcttct tttggttggg atgtgtgctc tatctcgcaa gattgcatgg tcaactagcag 120  
 tcatattctc aatcaattcc atggcttctt caggggtctt caattttatt tttccccctg 180  
 tagaagcatc taaaagttgc taggattgtg gccttaaccc gtcaatgaaa atatggagct 240  
 ggattggctt tgaaaatcca tgagtaggcg tctttcttag taaccacga aatctttcca 300  
 aagcctcact caaggactcg tctagaaatt gatgaaagga tgagatgaca gctcttcctt 360  
 cagcagtctt ggactctggg aagtatntct tcaagaaatt ttcaaccact tcat 414

<210> 29185  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
  
 <400> 29185  
  
 agcttttccc ttcgtagcat atagataaat gatgtttata tacttgtaa attaggtata 60  
 tgtatccgcg ggtaagagat atataggaaa aataaaagaa aaaaaaatag attatgtgaa 120  
 aataagacat taaattaaaa tactatgcaa atataattat aattgttaat agttatgact 180  
 ttttaaactc cctaaactac agggatatcc ataacttaa ttagttggtg atcgacaccc 240  
 atatcggcta ttaactattg tcttgtttat cataattaga caatgacttg acatcatcat 300  
 aaataaagag aaaactagag ccaagatttg ggaggacac aactgatctt gacatttcat 360  
 gatgcagatc aatcatatg gaaggggcac atgacgtcaa taagcaat 408

<210> 29186  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29186

tgtgacanat ctcttgagaa aataaatatg ctcaatnntt tggtcttttt gaatncaana 60  
gcaaaccaaa tgcaccttct ctaactcctt gatcataaag atctacttca gaagtgcctc 120  
cttttggatc accatgataa acttctctgc ccatccaatc cgtatcaaac agaaagaagg 180  
gaaaccatga caactgcagg tagacaggat tgaaatgaac ataagaagga tttcaaattg 240  
gaagcaccaa cactaggcta atagcattca caacacaacc gacttgaaaa cacaatatc 300  
aacagaaacc ttgcaaata aatactagta cataccaag tgagagccat tacaaccagg 360  
acagaatgca tagcaggtgg caaatgcctt aaacttgta acaagtttac caatactgct 420  
ccaggcccat 430

<210> 29187  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 29187

agcttctaga gttaactaca tgaagttgcc tcggtaaaaa cgatgccag ccttcgttaa 60  
cagttggatc ttctcgaaat ttggtttgca acttcacaag acacttgctc atgatctgac 120  
cgttgggatc ttgagaaga tgtctggagt gtgctagaag cttccgtttc cgagagcatc 180  
tcttatttaa gcattctcgc ctttgctttc gtgtagctta ggaaaaacgt catttcttct 240  
tctttctttc ttccaaagcc atttctaaag tcccaaacac tttctccatc acccatagcc 300  
aacattagcc accacaaacc atcgttgttc tccattgaaa cccacaccg agaggaaccc 360  
ttcaaccgaa gcggaatctt ccaacttggc ttgcggtttc agtagag 407

<210> 29188  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29188

ggtagagtta agtctcgtac tggtttaatc tattacgggt tattttntat tcgatnacat 60  
tgnnggntga gacaatgatt gattttttca agagtctcta cttaattga ttaccaagta 120  
gattaatcga ttacttctct cttgtttaag ttgctcagaa gtgaacaaga acattttaat 180  
cgattacctg ggtcatctaa tcaattacat tggtcttgag tggttttcca gatgttggac 240

ggacacttta attgattact tcattgaaat atttgattac tttatagatt ntatcgattg 300  
 caagcgggta taactatattt ctctataaat aaccagcttg tgttcacatc tatacatcat 360  
 gagatcatta gtgaacactc aatacatctc aaaaattact tcttagtctt agaatga 417

<210> 29189  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 29189

agcttgtctc atatatgtcc aggaaggaca aggcggccga aggaactagt tccgtcctg 60  
 agtatgacag tcaccgcttt aggagcgtg tacaccagca gcgcttcgag gccatcaagg 120  
 gatggtcatt tctctgggag caacgcgtcc agctcagggg tgacgagtat actgatttcc 180  
 aggaggagat aggtcgccgg cgggtgggcat cactgggttac ccccatggcc aagttcgatc 240  
 cagaagtagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300  
 tgaggtcctg tgtgaggggt cagtggatcc cgttcgatgc agatgctatt ggccagctcc 360  
 tgggatatcc gttagtgtg gaagagggcc aggagtgtga gtat 404

<210> 29190  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29190

cgcttccttg attcctttgg ttcttcttta ctnccttttt ctcttngttt tctgcagctn 60  
 gnaacttcta ggtaagtnta ttttaattga taatacatc tatgcatgtt taggttataa 120  
 attttaagtg ttatgtgtta agtatgttta cgttaggctc gttttgtatg ttaatgttat 180  
 gtatgttttag gtggtattta taaatttttaa gttgcaattc gaaatattaa tattatttat 240  
 attatatgta tatgttataa ttttagtcag tatgttcgta tttatattat aggatacatt 300  
 acagctagtt tatttggttaa tattattagt ttgagttttg tattttatat agtagattag 360  
 attcacctaa aagattatga atagcttaaa tttttatatg cgacatta 408

<210> 29191

<211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29191

agctttgtta tgtcctctcc cctcggcggg gatttcttct tcggcaaagg cgagatagtt 60  
 gttggcagtg atattattga ccagccctcc gaaaccttct accgagatgt cttgggccac 120  
 atgggcctcg ttcaaaacct tcactagtag agcccgatga ggctcggagc tcatgagtaa 180  
 ctccaacagc gagaccctgg ccgggggtttt gttgtgctgt tcgataacct tgaattcgct 240  
 ctgctgaatt atacggagga actcactggc ttcctctagt gacacctcct ttttaccatc 300  
 ctttttctcc ggaagacctt tcgcctgaat atctttattc gaagtgaggg gtgcttcgtc 360  
 atcttggtcc tccaccactt ttgctttccn cttgacgt 398

<210> 29192  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29192

ctgatcaaat gactaaaatt aattggcaaa aaagatatnn atcngattgc caaaccaact 60  
 tcactattcc tagttagaaa ttccaatatt ctatattacc tgctcattag ctgtaggagg 120  
 aaggcctcca acatacacc gcctagcatg tcatgtagcc tgtaaattca gtacatcaaa 180  
 gataggccat aatcagggaa agtcatgcta aacttaaaat gaaacttaaa taagactgta 240  
 gtcagtctca gcaagcctcc atactcggaa agactaaact taaaatgttg tgttgacaaa 300  
 gttagtgtgt ttctactctt tttctataat gactcttttt cttctcaatg aaagagaata 360  
 ttttctccca gcagcacagt gatactaaac aaacaaaagc gcaataaana gaaacacatg 420  
 taaaaagaa 429

<210> 29193  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 29193



agtcttttag aaaaatggcc ttagcaaact tcttatttcc agaaggaaat tcaatcaata 60  
 gacctccaat ctttaatgga gagggttacc actactggaa aacctcgatg aaaattttta 120  
 ttgaggcaat agacttaaata atttggaag ccatagaaat agggccttat ataccacca 180  
 cagtagaaag aatcacaata gatgggagca caacaagtga aagcataaca atagaaaaac 240  
 cttagatag atggtctgaa gaggatggaa gacgagtaca atacaattta aaagccaaaa 300  
 acataattac atctccctgt ggaacggatg aatatttcag ggtttcaaata tgtaagagtg 360  
 ctaaggaaat gtgggacact ctacaattaa cacatg 396

<210> 29194  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29194

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 ctgtactagg catgatcgta agaaaatata aaattttaaa attgttttta gttttcgtaa 120  
 cttaacgttt tttcattttt tgggtctgta attttttttt ctaattttta tccttatata 180  
 ttgatgtttt ttcaatttta attcttgtaa gttttttttt tcatttttaa tcattgtaag 240  
 tttgtatttt tcaatttttag ttttttaaga ttctaatttt tttatttata gtttctataa 300  
 atttgtgttt acagaaaata aaattgaaaa aacataaacc tacaagaaat tagaatgaaa 360  
 aaattgaact tatgggtatc aacaataaaa aaaacatgag aaaaaaaca 410

<210> 29195  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 29195  
 ttgcttctta gtttcagatg atgcagatga gttttagct acctcatgca ctctctaata 60  
 gactatagca tcataatttg cgctaaactg ttgggagttg gaagccatct tctcaattaa 120  
 atacctggct tcagcagggg tcatgtctcc aagggtcca ccaactggcag catctatcat 180  
 acttctctcc atgttattga gtccttcata aaaatattgg agaagaagct gtcacaaat 240  
 ctggtggtga aggcaactgg tgcataattt tttaaatttc tccaatatt catataggct 300

ttctccactg agttgcctaa tgcctaaaaat atcctttctg atggccgcgg tcta 355

<210> 29196  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29196

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aaacagctga aatgcatagc ataggggtca aggacccttt ggaatagccc acttccccta 120  
tttataggag aaagggggaa gaggttgctg cccagctcgc ccaagcgagc aggtggcttc 180  
ctttggaagt ttctgatgc acccccaaat tcataagttc cccccctttt tcgtatttta 240  
tggaagagtt aaggaagtat tacggaagcc tatcagactt gattntattc ttttttgtcc 300  
ttcctctcac caatcttaag tggaaaaggc ttaccagggg ttacggaaat tttacggaag 360  
cattacgaaa gcctcggagg tccattttca gaaaaagcag ggaggtgctt g 411

<210> 29197  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 29197

tgcttatatc ctcaggtagt tcagcaaata cttgcttcat ttctccaag ctcatatttt 60  
ccaaaatgga cggccttggg gcaaccctca caatctcgcc gccttttaggt tccttaactc 120  
gagcctcggc tttaatgatt agttctgaat ttgagcttgc tccacattta attataaatg 180  
gtgaggtatt acccgattg aattgaagga cgttccactg tgccacatca gttccagatc 240  
cagagcctgt atccgttgat ggcttgcgag aatgtgatag attctgaatg cggtcacatt 300  
cttcaggaat tgactgcac ataaaagagg gattaggaat cccaaaactc aattaaggtc 360  
acgctcagac acagattcag atgccagaaa tgctgagaca gga 403

<210> 29198  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 29198

tcttcacgag tatttataag ataagaaaat aagatgtata tttatttttc aatattaaac 60  
tttcttacta aaattaaccc tttactttta gagaagttaa ataaataaat aaataaatct 120  
ataaaagtta agggcattag ttgattttac tttataaaaa ttttaatttat ttttaatttct 180  
cattttcttc tcctacaagt agctaagtat ttctcctagc tagctaaata gtatgatttt 240  
tcctttatct atttgtaatg tctgtgatat gttgcaagtt tcatgactaa tcctgataaa 300  
attcgaaaaa gccactagcc aagagatata aagaatgata atatgttgag tcctgcacat 360  
aatgtttgaa cggacaggca aaagt 385

<210> 29199

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29199

tatgctttac ctgtcaggct aagcgccaat atgcttctat tttttagtcc tttgaataag 60  
gctaagcgta gctgttgccg taagcccttg ttatgtgtta aggaggttga gctaagcgtg 120  
ccttgctgca ctaagctctg ttggatcaag tggcctcgga ataattaaga aggggggggtt 180  
gaattaatta ttaacgaacc tttactaatt aaaaatctat ccttcttaat gttaccaaaa 240  
gtaaaagcaa taataaactg cacaacaaaa attaaagagt gtagggaaga agaagacaaa 300  
cataagagtt ntatactggg tcggcaacaa cccgtgccta catccagtcc ccaagcgacc 360  
tgcggtcctt gagattcttt tcaaccttgt aaagtccttt ac 402

<210> 29200

<211> 300

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29200

gaggattatg gggtagccat cacatgtggn actttgttgc ggtcgagcga ngngncacaa 60  
caagntttcc acatgcacaa agcgcgcata aaccacccat tccctgggtgc ccaccttcaa 120  
ctgagctcac gtactccac gtagcccata tcctcttttc tctcaacacc ggggtcccat 180



<223> unsure at all n locations  
 <400> 29203

tgcttataaa gaaaaatgat ggcattgattt taacctaatc acactatatt gaaagctatt 60  
 gaagaagttt aattattttg atgtgaaaca tgtgtctact tcttatgact catccatcaa 120  
 gttaaagaaa aatttgagta aaggaatttc ttcacataaa tactctcaaa ttattgattc 180  
 tttgttgcatt ttgacaaact tctataggcc tgacattgca tatgtagttg gtagattaga 240  
 aagggtatact aataattctg atcattctca ttggattaca ttagaaagag tttttagata 300  
 cttaaaagga atcattaatt atggcattca ttatacatgt tttcctgcag taattgaagg 360  
 gtttagcgat gcanattgga tttctaattc tgatg 395

<210> 29204  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29204 .

tgtagaagtg attgtgaata gtggggattg ttttttattt gtttgctttt ttgnnttattt 60  
 gtttgtttgt tataacttgt attagctagc ctaaaattgc tcaaccagac gaatgtatga 120  
 ggtgcttaaa ttaaggttaa caattgcaaa tgttgtgaca cacaattcct gttgggcaaa 180  
 gtgtcaagat tacaccaaaa tggctggctc gttctgatgt aattgtaaag catataagag 240  
 catgctatgg gttagttata taaccaatga agtaaaatag caaacacgta gaagttggaa 300  
 gtttggtcaa agaataaac aatccggcaa ttattctatg caattgaata tacaacaag 360  
 taagacaaga gttatacttt caactctatg tcatgcatgc ttgatgcttc 410

<210> 29205  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 29205

tatcttttat agatcaacaa tgagctgtcc gaaagacggc catcccggt cctctttact 60  
 gctctccagg attggcatgt gcttctcatt gcttgctaac cttttgaact gtttttgtga 120  
 tggttgctgc tgcatttgtg cagtgttaatt agccaatcag caagggtat gtactttctt 180

aaaatgaaca gcatcacata acaattaata tatacatacc aaagcccaaa gaaaaataag 240  
 attttacagc caaaggatga aatttacggt ctgtctgttt tgagaaaatg ttctttgttt 300  
 ccatttcctc ttttcacata taatttcaag gatgctacat tctttcactc cgtttccgat 360  
 ttacagatc tatatcagt atagataaa gacaacatg 399

<210> 29206  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 29206

tgccagaagt tcttagttgg ggatgctggt tctgtttgtt actaagatga tgaggaggcg 60  
 gaggatgaag atgagctggt agataatgat tctgaagaat ctgaggagta taagttcttt 120  
 gaaaaagtgt ttgcagaaga tggtagcctt aggagatatt atgagaacaa tcacaaggaa 180  
 ggagatTTTT attgtttggt ttgtgggggt attgggaaga aggtatggaa gaggtttaag 240  
 gattgtattg gactaattca gactccact gccatattaa ggacaagaag gaagcgagct 300  
 cacagagcct atgcacaagt catctgcaaa gttgtagggt gggatatcga tcaaatgcca 360  
 gctatttgtt taaaggattt ggattcctca ttggctggtt caaagaagct tttcgtga 418

<210> 29207  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29207

ttgtcattct ttcagagaga tggtaggacaa actactcaag gctcagttta tcagagaagt 60  
 caggtagctt acctagatag ccaatgttgt catggtcaaa aaagccattg gcaaacggcg 120  
 tatgtgcatt gactacacca acctcaacaa agtgtgcacc aaggacacat atgctttgcc 180  
 cagcatcgac aggctactcg actacgtgcc tgtgttccaa gtactgagtt ttcttgatgt 240  
 ctatttagga tacaacaaaa tcagaatgca caccacagac aagagaacac aacattctta 300  
 actgaagatg ataatttttg ctgtagggtc atgccctttg gcctgatctt canacaacag 360  
 atagaccata atcttgaggt ttatgtgaat gatatg 396

<210> 29208  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29208  
  
 ctaagcttcg gctgctaatt gctcatgnng cagttttttg gttatagnct gatggnggca 60  
 gcagaggagc acaaaccaca gacccttgcg acaggtacag atntctgggt caaggccagt 120  
 tggggtacca agttaaccaa tgcattcagt ttgccttcaa gcttcttagt ttcagatgat 180  
 gcagctgagt ttgtagctac cttatgcact cctctaata ga ctatagcatc atttatggcg 240  
 ctaaactgct gggagttgga agccatcttc tcaattaaat ttctggcttc agcaagagtc 300  
 atgtctccaa gggctccacc actagcagca tctatcatac ttctctccat attactgagt 360  
 ccttcataaa aatattggag aagcagctgc tctgaaatct gatggtgagg gcaact 416

<210> 29209  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29209  
  
 agcttgtaga ggatgcttca acggaggaaa agaaagaggg agagaaagag agagggggga 60  
 gcacgaaatt gaaggaagaa aaaaggagag aagttgaact ttgtgttggtg tctcacaaga 120  
 ctctcattca tcaaagttac aacaagtgtt acacatgctt ctatttatag actaggttagc 180  
 ttccttgaga agctttctta agaaaacttc cttgagaagc tttcttaaga aaacttcctt 240  
 gagaagcttc tttgagaaaa cttccttgag aagctagagt ttagctacac acacccatct 300  
 aaaaactaag ctcacctcct tgagaagctt cttgagaag ctagagctta gctacacacc 360  
 cctataatag ctaagctcac ccncatgac 389

<210> 29210  
 <211> 341  
 <212> DNA  
 <213> Glycine max  
  
 <400> 29210

agcttttctca atattttaaac aattcgcgtct cattttatcat gaaactaccc taaaccaaga 60  
 aaacagagta gaggcagaaa actctgcccc aaactaatcc aaataccaca gttttcccta 120  
 ctcaaatacc ccagtaaaat tctcttcggt ccggttcggt aaccattgga tcgccttgaa 180  
 aatthttactg gaggtttctg gtacataaat ctacattttg accgttgga tctgctaaaa 240  
 catgcctgga acccgagatg tactactctt cccatgacta gcaatgcaca accatttttc 300  
 tgcactatgt taaaaaaact gctggcaca tttgacaaca t 341

<210> 29211  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<400> 29211

gcttatgttg caaacattta taatagacct cctcaccagc aaaaccaaca acaacagaat 60  
 aattatgacc tttcaagcaa tagatacaat tcagggttga ggaatcatcc aaatctgaga 120  
 tggacaagtc ctccacaaca acaacaacag cctgtccctc cttttcagaa tgctgctggt 180  
 ccaagcaagc catatattcc tcttccaatg cagcaacaac agtagtagtc acaacaaaaa 240  
 gcaacaagca actgaggctc ctctcaacc ttccttagaa gaattagtga ggcaaatgac 300  
 tgaaattctg atactgagga cagatgtcgt acaggatgtc acgacatcgc gcttcagaac 360  
 atgcagaatg tatatgacag tatgaacaga ttaaacaagt aaataacaca agagaattgt 420  
 aaccagttc ggtgaacgtc cctacatctg 450

<210> 29212  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 29212

agcttgtact taactttgct tgcataattct gtgtaactct ggccaaaagt ctcaaccatc 60  
 aaatcctctt ctttctctgc cttctgctta taatacaaca agcatactgc cacaataaat 120  
 agcagactca gaggtgctcg aagcgcaatg cagtatgtta caaacaaaag cattgttgat 180  
 gaatatattg gatgacggac ccaacgataa ggtccaaatt gcactacaga agttggctcc 240  
 accacatttt ctgaatactt agcgagatac aatgtagcat tatactgcat tagcagagtt 300



gtaatgatta aagcccagat tccaagattg ctccaccac ccggtatgag gtgaagctca 360  
ggcccttcaa atgctgcaag ccaatggcca accatgactc ctgtgctg 408

<210> 29213  
<211> 464  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29213

gcttaatggc ttctcgacat anactattaa aacgtacagt gagaattttt atgtcaattg 60  
tatctgttat nttttcatca gttccaatat cagattttgc attccttgtc catcgtttca 120  
aaatgtagtg cgatggaagg gtaagaacat ttgtaacagt gaagacagtc aatatatgtc 180  
aacaaagaac gcctgagtat tcaaacatct ggcagctgca attcaccttc atttcagaga 240  
tatttaatgt gaccatgtat gccttgatgat catgtacata ttttgcaacc ctgtatttac 300  
tgatcacacc atcatcctca acattatttg cagtataagc aaaagtttcc accagttcct 360  
cctgagattc tgcaaaaatc ttcttagtgt acatatttgc tgcttggtgt tccattgggtg 420  
atggagtctt cagtacaggt gtgttacaaa tagtctcata atct 464

<210> 29214  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 29214

agcttttcta tggattgact agcatatata ttcattgaga agaaacgaga gagaattcaa 60  
gagaaatact actgagtgaac acacaatgct tattgagtct attctttgct tagcaaagat 120  
tttgttccga gtcttacatc attgtaaaca cattccttga gtgttaagat ctgtaattct 180  
ttgaactggt ggtttatgaa aattaggagt gtcgtagtaa caaaacaata tttgggtggt 240  
cttaaattca gggggaatct aagaattagg ctaatggtgg cctagagagt acttgtaaaa 300  
tcaagaatgt cagattaaata tactagttag aatattaatt aatagaacct tttacaattt 360  
gagtgaacta gtataaatta agtgtttcta ctattctcct taag 404

<210> 29215  
<211> 341

<212> DNA  
<213> Glycine max

<400> 29215

ctctcttaca gcttataagc actccacttg ctacataact ctcggttgaa aaaaacataa 60  
gggccaactt ggttaatctc ttgcgcaggc accagcttca agctttccaa cacaacaaca 120  
gtggcggctc aaacagcaag aacggtcttc aagactctct tctacttgca tttgctccta 180  
gttgacgcct tggtgacttt ccttaccata tatggacctg tctctgattc tcacaccac 240  
ccattccacc ccatgaaatg gtaccctcca cttcttgcac caacagcatg tgctggaatt 300  
gttggcttca catggcaatg gatcactgag agccactcca c 341

<210> 29216

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29216

agcttttagac atctttatctt gatttctttg ttcactctgag tattttttgtg tagcttcac 60  
aaggtaaagg gggctcttcc acttttttgaa ccctgatctt attatctttg gaagctagac 120  
ttcattgcat gttgtgttga tgttccaaat tcgtagctac tgccttggtt ggatctaagt 180  
gatatgaggt tttttattga aattttaagg ttaaaaatgt gttcattgag tgtcaaaact 240  
tatggtttagc cttaaatttc acctggatca aagttttcta gcaaaagtta tgaacaaaac 300  
aagtttaagg atatttttat aagattaaat ctgtcacaaa attaactggt ttaatggttg 360  
tatcattatt tttcttaaag atttgactnt aaatatgagt ttgata 406

<210> 29217

<211> 469

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29217

cactcacgct tctgtgggta tggaataatc aattatcaaa tgtgggtaatc gattattnta 60  
acacacttag attttctaata aaagtttcca aacaaaatct aattgattac taaatgtagt 120  
aatggattat ctgagccat aaagtcttca ttctactgaa acatacatat gtaatcaatt 180

attgaaactg gcaattgatt aattcggcta ttcttgccac atttcaagta gaagggagct 240  
atgctgctta ttctaacact ntgtaattga gtattaaact ctgtaatcga ctacattata 300  
ttgaactcac tgcttctaag aaactttgag atcaattcat taatctccca tgtttgattt 360  
ctactaagca tggatataag aaaactaaga ctaaatacgc catcatgcct agtctaagaa 420  
catnccatac aaacaccaca tcttttaaaa cttggctgac attgtaaaa 469

<210> 29218  
<211> 270  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29218

agctagtcca ctgatactcg ggatccttag aggaccgccg tttcagcttt tgaaagacag 60  
cgaaaccgct cagaggagca tgattgccct gacttcatac aaaaagcagc tgatctggcc 120  
gtgacttcaa catgctacac aactatgtca tcattgcaact cccatgccac tccaccatcg 180  
tgacgagcga tattgatata acatacgtct gggtcataac gaaaggcttt tattacaaaa 240  
aaatacattc cctacttan ggatgggctt 270

<210> 29219  
<211> 288  
<212> DNA  
<213> Glycine max

<400> 29219

cgtattcaag cttgtcacc attcgcccga ggcgagcaag gatgcttcct ccagaaacaa 60  
cagccttctg aaggaatctt ctggacggcc cagctggggc tggacgctat ttgcaccctc 120  
ctttatacta aatgcacccc cttctatttt tttgtaattc tttatccgat acgctacgaa 180  
actttacgaa ttgcatagcg atacttattc tacttccgca ccgttacgaa tccttacgga 240  
atatgtatat actcttatgt acctctctaa cgatgtacag aaactcac 288

<210> 29220  
<211> 379  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29220

ntntacagta ctgaaattta aatgctgaaa ttttaagaac tgaattataa tttctgaaat 60  
ttaaattgaca taaatcataa aataacttan aataaactaa agtggtcaca atgcaaaaat 120  
ttaaactgtct tgctcctcct gtggctggctc tttattaaga tccagtgtg gagctgtga 180  
tgaatcctgg ataagctgct ctggctccgc aactgggtgta gatggctang tctcctcang 240  
agcatgtgca gaggatggct gggctcctc aagagcaggt gcagaggatg gctccggtat 300  
ctgatctgtg ggggtaccct tcttctgagg catgtgtgta tatgcatcaa aataaaaggg 360  
ctcgggaggg atgagctca 379

<210> 29221  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29221

agctttgaat ggangctctg gtctcttgtt gaaactgcat gttttgcata gtcatttgcc 60  
tcacaagttc ttcaaggga ggttgcaag gagcctcaac tgtttgctgt ttctggggct 120  
gttgctgttg ttgttgctgg attggtggag gaatgtatgg tctgcttggg gcaatagcat 180  
tttgaaaata agattgttgt tgctgctgtt tgggatgatt cctccaccg agattgtacc 240  
tggtgttgga gaggtcataa ttgttctgtt gtggctgatt ttgctgctga ggttgaggag 300  
gtctattgta gatgtttgca gcataagctt caagctgttc aattgcttca gattgttgca 360  
cagaaggga aaggtctgtg tgggtgtctg c 391

<210> 29222  
<211> 449  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29222

tctaaactnt gtacaagaat gaagctctga taccacttgt ctctgttatc ttaagaaggg 60  
gggggggggtt gaattaagat attccaaact gtttcccta attaaaaatc tatttcactt 120  
tttactcaag ttatgaattc ccaatgacaa tcttcttaaa tattaattca aatgaaacaa 180

tttgaatatg aatataaagc aataataaat aaaggagatt aagggaagag aaaatgcaaa 240  
ctcagtttta tactgattcg gccacaccct tgtgcctacg tccagtcccc aagcaaccgc 300  
cttgagagtt ccactatctt gtaaattcct tttaacaattt ctaaacacac aaggacaatc 360  
cttcctttgt gtttagagat cctttacaac aagagactca cagtctctta atcccttana 420  
gaatgagaag aagaagaaga acaaatctc 449

<210> 29223  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29223

cttgcacttt ttgtttcctt gaggcttttg gttgaatttc gagcgagaat tgtccctaaa 60  
agaatcttct ttagtgatgt gatagttctg gaaactaatg gaggaagca tcaatagagg 120  
ggaatatcaa cctaatttgg ctaaacagtc ttctttgaga ttaggtggca gttttaaatc 180  
aacattgtct ggaagatcaa atcctcgaaa ttcccttca ttccggcggc ttaattctgt 240  
gcgaacgcca agaaaagaag gaaggatcag cgtaggcggt gcactgtggt ttcggagcaa 300  
tcatttactt ttgtggctgc ttctaatac cctctgggct tatcttggat ctntgttca 360  
gtccaggtgg gctcatagtg ataagaagga agaatttct 399

<210> 29224  
<211> 459  
<212> DNA  
<213> Glycine max

<400> 29224

actaagcttg ccgacgtgtg ccaatatgca tcttgccaaa ctagtcaatt cctaatactt 60  
aaaaaaaatt aagaatatca cctttttgcg cttcttattt agcaccttcc aaaagacatg 120  
cacatccaag atatataatt ttcatattaa ttaatgtatt tttcaagcat tcgttcatat 180  
catgttccgt gtctttatgt attttgtttt tagtactttt agcatgtcgt gttgtgccta 240  
actccaattt gagaatataa caaacagtac ttttaaccta tatgctgcag gatgatcaac 300  
ttgcactcca caatccacac ctaagtttag tactgtagtt aattaatgaa tgcagcacta 360

taaatgcacc catcagcaag taaaaactaa tttaaattaaa cttaagatag taaaataaca 420  
aagtcttatc tcaactaaata aagtaagtgt tgatgcctc 459

<210> 29225  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29225

agcttttttac actgacaatt atagaaaaat tatgcttctg ggtaggtaa aactacatgt 60  
aaaagttaat aagaagtcag cctgtagcgt caatgaatta gtttcatgta atgcatataa 120  
ttacataaaa ttaaaataaa acataaatct tagcagttgt ctcaaactga tggatttttg 180  
ttttgttcat gacatggctc gtaacaaagc tagatgaaat catgaagcca acaaatgagc 240  
ttcacttata accagaactt aatggcaagg gcatttgaaa taggacagaa ccaggcaaatt 300  
acaaaacgtg taatgggaac ttagtgagta ctacttgtag ctaacatttt ttatatatat 360  
taataggatn tttcttatgc agctntaaac acttaatta 399

<210> 29226  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29226

ttcttctct agcttcccaa ggaagctacc ttccttgctt ctcatgaag attcccatgt 60  
gctaggctat aaatagaaac atgtgtaaca cttgtcataa ctttaatgaa tgagaaacac 120  
gtgagacaca cttcaaagtt caacttctct ccctaattct cttcaattcc catccccctc 180  
tctctctctc attctcttcc tccattgaag ctctcttctt aagcttctta tccaaggcat 240  
tctcttggtg gtgaatgatg caatcctacc cccccaaggg cattgtatag aggactccaa 300  
gaagattgag ctagagatac aagagaaggc cataagggtc tcatgagcct tanggtagac 360  
ttcgggcccc tgggctacgt atgagtcac ttatctttat acatattaga ttaagggttc 420  
atta 424

<210> 29227

<211> 391  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29227  
  
 atttangatt atggggaacc cgtcacatgt gtgactacgt gacggcctgg cgatggtgca 60  
 agtcgactat ccacatgcgc gaatcacgca tgaattcacc atccccagat gccaaccttc 120  
 aactgaactc acgtactcct acgtagccct tatectctat actctcaaca ccgggtcccc 180  
 ataaatccat tcaagcttcc ataacattcg agcaatatcg aaatccagac atcatgaact 240  
 atcagagcca agcaagacac ggcataaggca gaatactctg accaaaacac agaccgatac 300  
 cacagctttt cttagtcata gaccccagtg acattctctt cattccaata cggtcgacgc 360  
 tggatcgact cagaaattat actggaagtc n 391

<210> 29228  
 <211> 302  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29228  
  
 tcttatccaa ggctcatctc ggtggtgaag ctcttctctc catgtcttat tccatagtgg 60  
 atggcgcttn ctctcacctc ttctnctttg tcttccactg catctccatg gtggaaaatc 120  
 accattaaag gacctcattg aagctcaaag atccaacctc catagaagcc ccacaagcaa 180  
 acttccatca tattcttcca cccgggattg tatctattgc tggagaggtc ataattgttc 240  
 tggtggtgga ttttgcctgt gagtttgagg aggtctattg tagatgtttg cagcataagc 300  
 tt 302

<210> 29229  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29229  
  
 tttagctttt agaatggcta gacataatac atggcggagt ttggtttggt tcaaggataa 60  
 aagggatgcc ccacattatt tccatgacac aaatgcaaaa atgatgattt ggaaacttta 120

[illegible]

tgtgtogatc	ccacatat	gagcattctc	gcanaatata	cttactctaa	ctgggtctcc	60
ctatgagtn	acttagtgag	agtgacttga	cttaccatt	gtgaggcatg	tcttgtcatg	120
tactcctaag	cgctaaacaa	ggtttttcaa	tgaaaatgg	accacattgc	atgtaggctt	180
gagtctagtg	catctatttc	ataactcttg	tgtttgaatt	tcattgagtt	aatgattgag	240
gttttggtgt	taatttttgg	agtgtgtgaa	cttgaataag	tgtgaataat	gtgtgtgatt	300
ttgtgaagtg	atgttgtctg	tgtacattca	gctctaagta	ttatatctct	tacatgctct	360
agtgttttat	tatatacgaa	tgtgataact	cattcccggt	gtctgtctgt	gtttgggcta	420

<400> 29231

12180



<210> 29232  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29232

tacaattaat atagaaccta taccctaagc tcacatccta ttagagcgtn gngttccctg 60  
 ttttctctag catgagggtc ttcatagtca tccacctatt catctgctcc cccgaacaca 120  
 agttcaagat catcacagga tccagacaca acaacacaca gggagtgagt tatcacattc 180  
 ctagctaata gagaaacaag acagttaaat atacatatta tataaatgag ataccacttg 240  
 cttaaacata gctcacgtaa cttcaccact tcgtcattca aaattcactt ttcaattatc 300  
 aatcacatta cacaagaatc ccacacttcg atcaagatat aataacacat caattagcaa 360  
 gcatatgcaa tagttatgct aagacttaat cctatatgca atgtggtacc atgtcagtga 420  
 aaaaccaccc tggggcgctt aggagtacat aacaagacac accaca 466

<210> 29233  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 29233

agcttgtatt gggctcttgat cggatttagc aaaaattgct cacgtttaat tcggattcaa 60  
 aattttaagt tgaagtccta catttttagtt tgggccaacc aacctagcta gctaaaccca 120  
 ttttgccacc tcttatttga ccaaactatt ttagacgtgg taacaaatag taagtcggca 180  
 tggcaatgta tgatttatta cctcatgatt tatatataaa tagataaact aaaatgggta 240  
 cgttttatgt gaatgttttt tcttattttt caatagaatc ttctccatct gagtatcctc 300  
 agcatagtct cgcttggtgt caattcttta acacaagtga acataacgaa tataataaac 360  
 tctttagtagac tgtgatacaa tcaat 385

<210> 29234  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 29234

taacacatgg agganntttc aatttgtgga agcatgctac tgagttcttg cctgcattgg 60  
tatttaggtc ttttgagttt cctttaactg agactgaatg agtgaatgta catgtttaat 120  
agatttgaaa aagaaaaaat gaaaatttcc taaattttaa atacttttta ttagtatatt 180  
gtaggacatg actcaagcaa cctctactca ngacagcaaa ggatcttcat ggatttgagt 240  
ggaagtttaa gcgtgcatac acatacatat atgggtaaat tggttttgat atgagcagta 300  
aattttagtt gcttgttcaa attctgaatg aatgaatgaa tattgtgatt ngcatcanat 360  
gaagaatgct agagacatag tactcatatc tgctttatta ctggtgaatt ttcttatccc 420  
tttcattaat gtgata 436

<210> 29235

<211> 405

<212> DNA

<213> Glycine max

<400> 29235

agcttttttg aaatcttgat gccttagtca acctagtaac tcagcttgcc ataaataaaa 60  
aatctgcata tgcatactatt actgttgcaa gagtctgtgg tctatgttct tttgttgatc 120  
accatacaga tctctgtcct tctttgcagc aatttggagt caatgagcaa cctgaagcct 180  
atgctgcaaa catttataat agatcccctc agcagcaaaa ccaacaatag tagaataatt 240  
atgatctttc aagcaacaga tacaatctat gttggaggaa tcatccaaat ctgagatggg 300  
caaatcctcc acagcaacaa cagcctgtcc ctcccttcca gaatactact ggtccaagca 360  
ggccatatgt tctcctcca atgcagcagc aacaacaaag acaac 405

<210> 29236

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29236

gctgctttnt gcaattctaa gacactagag agcttncaag tatatgactt gtcccacgtt 60  
gatcttttct atctaataatg catcctgcaa aatcagaata tgaaaaacct gtcatgttta 120  
aggaagtacc tttaggatag cacataagca aacacttacc atgatatcca atctacttgc 180

aattaagcaa agaagtgatt caatcatacc tttgtatctt gaatgatgca ctaatttacc 240  
 tttctcatca aaggcaaggt atgttgatgt agacatanga gcatatgctt ctttgcattt 300  
 cttcatacca aatttcttta tcggnnttat gcaatatctg gtttgactga agaaagttcc 360  
 atgtttcaat cgcttgactc tgagtcctat aaagaaatct aattctccca tcatagactt 420  
 ctcaaagtct ttcagcatac aacatgacca ttccttgca 459

<210> 29237  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 29237

agcttttctc tgcttttgaa tggggaatgt cctgaatata aatctgttca tagggaaagg 60  
 aaataaccat aagaaacttg actatttcaa gtaaataatc aatatcatat tcaatgtagt 120  
 ataaaataca aaatgagaga aaaaaaaatc attctcatac acacctattc aaaacacaac 180  
 agaatataga gtttggcata acattgttat atacatataa acaagattcc aacctatatt 240  
 agtatcaagt atggaataag cctagtcaat ttcaatggca attatgggac gcaaattcatt 300  
 gtagttaaca cagcttccaa aatcagggtac aagaagctca gtttttataa agaaattgaa 360  
 gaggttagta aataactcga gaaacctcct ttcaactatg ctagacaa 408

<210> 29238  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29238

gcttgctnta nagctaatta caagaagaga aggtgcatgg catcactctt agcttgatat 60  
 tgtgggttatt gccatgaatt tgcgggtgaa caaaagatat ggctagttgt atatggatct 120  
 agaaattaga aaaaccatat aaaatagggt atgaaaggac tctagtagct atcttaggat 180  
 tatattttga aataggaaac taatttgact gcacagctca tgttatttcg tgtgacttca 240  
 gtcggagtac aatgttaatg agttcttttg gcctgttata ttttattaat attgcccgggt 300  
 gtttcttgggt acaacaatgg tcggccttac ggtttccgtg atttaaaaga ggatagccgt 360

ccatgatcca tgatccatga tgaagcattt attttaaaga aggggtgcagt gtggttaaggt 420  
gaaagataga tggaaatttt atacactaat atattaacac acca 464

<210> 29239  
<211> 409  
<212> DNA  
<213> Glycine max

<400> 29239

agctttatga caagtctata cgtggatatc tccttgggta tagcaatata tctaagggtc 60  
atcgtgtcta caacttgcaa actaagaaac tcgtcatcag tagagatggt gaagttgatg 120  
agtacgcttc ttggaattgg gatgaagaaa aagtggagaa gaacgttctt atacccgctc 180  
aactacctca agaagaagct gaggaagaag acccaggtga accaccttca cctccaccac 240  
aacaacaaga tcaagaacta tcatcaccag agtctactcc aagacgaggt atcttccctt 300  
ggtggacata tatgaaacct gtaacttggc catacttgaa cttggaagct ttgaggaagc 360  
gtcaaagtag gaagtatggg tcaaggcaat ggaagaagag atacaaatg 409

<210> 29240  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29240

tctcatagac tntctgagat gtttagggat gcccgaaatg aaaattaaag gccatattgg 60  
attggagatc gtgtctggaa tgatctgtta tcacattggc atgcacctga atatcgttcc 120  
aagtgtgcac atgccaaaat aaatcgagca tcttaaaagg gtaggtgtat gcacacaggt 180  
gattctatca gcttgcagga tcatgccatt tgcttgggtat gtacattagc aatataatac 240  
atagttgttt atacttgttt aacttaccac ttaatgttta ttttttaatg tttgttaata 300  
gttagaggaa cttggtcgat ctgtatatgt agatgaggtc tttcagcaca gtcatttacg 360  
aaaggatact ggtcaatttg tcgatgatag atctaaacgg acacatgtga gaccattatc 420  
ttgcatatgt tttctattct tttanatggt tattata 457

<210> 29241  
<211> 399

<212> DNA  
<213> Glycine max

<400> 29241

agctgtgaaa agtgttggtta ttcaccttct cgctaagcca atctgtcgtg ctatacatct 60  
ttttcattcc tttctccctt tcccgaagag aattcgccga ggactaaccg cctgaattct 120  
ttttgtgtct ctcttctccc ttttccaaaa gaacgaagga ctaaccgcct gaattgtgtt 180  
gtgtctccct tctccctttt caaagaattc agaatgacac agcctgagaa ttcttttgat 240  
tcttcccttt cccatgaacc aaagatttca aagaactaac cgcttgacat atcttttggt 300  
tccacttcac aaagtttaaa ggactaagtg cctgagaact ttgtcttaac acataggagg 360  
atacatcctg tgtggtataa ggagagggtg catctactt 399

<210> 29242  
<211> 250  
<212> DNA  
<213> Glycine max

<400> 29242

ttatacaatc aacatacaac ctatctccta atgtcacaac caatcttatt gaactgttta 60  
aatctagcaa gagcgggcag atgctgataa ctatgcacct atcactaacg tatacccgag 120  
cacttggtac tgatcatcac cagatacatt ctcttcgttc cacatggaga gacgtaggat 180  
atacttagat attatagagg aggtacctag tacactagtc tacatattga ccgtagagat 240  
ctgggtttgaa 250

<210> 29243  
<211> 341  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29243

agcttttttag tcttatctga tgaagatgaa ttcgtggcta cttcatgcac tcctttaatg 60  
acaatagcat cacttctggc actaaattac tggtagtttg aagccatctt ctcaattaaa 120  
tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180  
cttctctcca tgttactgag tccttcatta aaatattgga gaagaggctg ctcagaaatc 240

tggcggtgag gacaactggc acataagttc ttaaatatct cccagtattc atataagctc 300  
tctccactga gtngcctaatt tcttgaaata tcatttttga t 341

<210> 29244  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29244

tgtaggatta tggngtacct atcacatgtg gttcttgtgg cggtcgggcg atggtgcaaa 60  
acaagttctc cacatccaca aatcatgtac aaccacccat cccctgttgc ccacctccaa 120  
ctgagctcac gtactccac gtagccctta tctcgttcc tctcaacgcc gagtccccat 180  
caatcctccc aagcttcac aacatccaag taattccaca tccaatcatc atggactaac 240  
aaaatcaagc aaaacagggc aaaggcaaaa aactctgccc aaaatacaac tcanattcac 300  
agctttttcac atgcaaatac cccagtaaca tttccttcgt tccgattcgt taaccgttgg 360  
atcgaactcg aaaatttacc ggaagtctct agtacataag tctacattnt gaccgttggg 420  
atctgctagc anatgtccag aacctcatat gtactac 457

<210> 29245  
<211> 390  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29245

agctttttcan gaatcactca tttcccatgc atcatctttt ttaaccaacc attgctcttt 60  
gccctcatca gcgctcagga tggtacacat gatgccactt tcatacatgg tcatgatagg 120  
attactagat aagaaaaataa caaatgactt ttcttgtaaa attcattctc agtcttttat 180  
atTTTTTTtat tagattgaaa aacattagat ttatcataaa ttttttagaaa agttacgttg 240  
ttggaatgta acaacgtctg tggcggttaac gtttctcttg cgacggaatg agatgacagc 300  
catgagacaa ctttcataca tgggtcatagc aagaaggatc agtaaataa aaggaacttt 360  
cttatagtaa ttctaatct tctacataat 390

<210> 29246

<211> 375  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29246  
  
 attcatataa tatagtttct cgaatttctt gctgatgttg tatatgatca aataagaggt 60  
 tatcatgcac ggatatccca tatggctaac gcatgatata tgataataag tgacgatatt 120  
 attgttgctc taagatccaa gtatagtaag agccttgcta gattgaccag ccacgtattg 180  
 agaagccttg cacgccttta tgaggatgca ttataacggg ataggctgac atcgaacttg 240  
 tcgatgatcg tgactgttat ccatatgctc gatacccata caagcaagcc caagaggagt 300  
 acggccgtga aacaaagcat atattangca tgatactata ctaagcagcc ttcctttgct 360  
 cgactatata tgagt 375

<210> 29247  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29247  
  
 agcttttccc ccaattttct ataaataggg ggagaagtga agtagaaaag ggttcagccc 60  
 cttaggcact tctctctctt tcgaatttgc tgaggaaaat tagttccgtg aagaaaatcc 120  
 aagccgaggc gtttccgtaa cgtttccgtg agtgatttcg cgaagggtttt cgaccgttct 180  
 tcgacgttct tcattcggtc ttcattcttc aacgggtaag tacctcatal caagcttttt 240  
 aattcattct atgtaccgtt ggtgggtccac cttttgtttc atgtatttat attctcattt 300  
 tcatttactt tttatacccc cttttgacgt gcttaagcca tntatntaag tcatttctcg 360  
 cttaatctaa anataaaaata aatctccacc gatc 394

<210> 29248  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29248  
  
 ctcagcttga gctaaatccg actcaccata accttgccca ggtgatatgt aatccttacc 60

ctcgaagca aagaagaata gaagggaat ttccaatcaa aaaaaaaaaa aaagagacgg 120  
 aaaattccca atgaatgaga acaaagaaat gataggaatt tcccattcaa agagtgggag 180  
 aaagccaaag gataagaagg aacattccca accaaagaat gggaaaagta aaaacgaaaa 240  
 gaataaagct cccgggtcaaa gaaactagag gaaatgtgca gaaaggtctt ttgaccagac 300  
 aatatctgaa caatacacia ttgtcaccat atgaacataa taggagggaa cggaaccac 360  
 gacctanaat ggtctcctgc ctttaattac caaccaaatt tcc 403

<210> 29249  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 29249

agctattgag aggtgcta atcttctca aacgtaaata caactcccgacttagaatt 60  
 ttcatcttga cgggtttcct ttggttttcc cgacgttttc cacaataaa cattggtggc 120  
 gactccgcgc atcttctctc ctttgaaag cgcacccgtg agcctcgct cgatcgcccg 180  
 caaaagggca cattgcgaca aggtccaatg ccttaatgtt tctctcttct cataaccaag 240  
 agatcggtta agatccagtc ccttaaatgt ttctctcctt ttaaaaaaca agatcggtt 300  
 aaaggtccaa cgccttaatg tttctctcct cccaaaaaag agatcggtta cgggtccaatg 360  
 ccttaacatt tctctcctt caaaaatcaa gacatc 396

<210> 29250  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29250

tagctacaca tacctctcta atagctaagc tcctctnct gagattagaa gctagagctt 60  
 agctacacac cccctataat agctaagtc acccccatga gaaaaaacat ganaataaca 120  
 aaaaaagtcc ttattacaaa gacaactcag aatgccccga aatacaaggc taaaacccta 180  
 tactactaga atggccaaaa tacacggcct agacgaagga naaacctatt ctaatatcta 240  
 caaagataag cgggtctcata cttagcccat gggctcgaaa tctaccctaa gggtcatgag 300



aaccctaggg cctttccttg gatctctagc ccaatctact tggagtcttc tagccaatgc 360  
 ccttgcgggg taggattgca tcacgagttg cttcaaggat ttccttggtc ttgtctttgg 420  
 atgcctgttc caagtctatg 440

<210> 29251  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<400> 29251

ctataaatag ggggagaagt gaagtgaaaa agggttcagc cccttacgca cttctctctc 60  
 tatcgaattt gcttggaac atcgtctccg tgaagaaaat gtatgccgag gcgcttacga 120  
 tacgttggcg taacgttttc gtaaagaata tcgcgaaagt ctcgatcatt cttcgactct 180  
 cttcatcggt cttcggactt cgacgggtaa gaacctcgaa ccaagcttat cgattcattc 240  
 tatgtaccgg tggcgcgcca cat 263

<210> 29252  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29252

ncggccggggc ttacccatgt taatgatnch ctgcatnacg gacctatgaa actaagcttg 60  
 ccgcagctcg ccagacgaca ttgttgcttc tttcaatatt aaaccttttg gaggaagggc 120  
 ctagaacgcc caagtgggcc agcattgcta tttggcacc cttttttact aaatgcacac 180  
 cttctattat tttggttaatt ctttttccgt aacgttacga aactttatga actttgtaac 240  
 gatacttatt tacctttcct aaagttacga atcttttccg attatgcatt tactcttttt 300  
 tcacctttcg aaaagatacc ggaaccacaa gattgcgcaa aaacatctct tttcaattcc 360  
 gccacttacc gaattcacgg atcgcacagc cttgttcttt tgattaccag atgttctgga 420  
 ctcattattg tgcacaaagg tcctaaccac tcaacctgnt gccatcggtc atgcatcagt 480  
 atact 485

<210> 29253  
 <211> 390

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29253  
  
 agcttttctt caaggcattg ttagaaagat ctagagtttt aagcctagaa aggtttccta 60  
 tttcatttgg gatagctcca ctaaactagt tatgactaag agaaatgtct gtgagttcac 120  
 tgaagccacc catgtggaag caatgccttc caaggttatt ttgatgatgc caaagaatca 180  
 agagttaagc aaattccaaa gattcaagaa tgaatttttc aagaatcaag tttcaagaat 240  
 caagattcaa gaataatcaa gatcaagatt caagattcaa gatttaagaa tcaattaaga 300  
 taagtattaa aaaagttttt caaaacattg agtagcacat gaagttttca canaatcttt 360  
 taccaaggag ttttactctc tggtaatcga 390

<210> 29254  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29254  
  
 tccatcaagt ggtaatcaga gcacaagagc ttcaagtagg tgtttcttaa acctccatta 60  
 attntttgat ttaccttctc ttccattgnt gntttctcat ttttttctc catgtatctc 120  
 ctcacatgtc ttgtgctaaa tgtttttaac atgattcttt agagtttcca ccgattaaac 180  
 ttgctataga agctagattt gattttctat ggttcaaatt tgttgttctt gttcttgaac 240  
 cataaattgt gttgagttta ggttcctttg agttntgtct tgttattttt tttggctgaa 300  
 acctaaacca taaaattctt acaaaaaatat taaagtagaa gaaaacctca aaaatctaga 360  
 gtgacttggt cacctattgt agttntgtca tagaagtcac gtctagtcac gaaacttgct 420  
 acataagatt tcttatg 437

<210> 29255  
 <211> 388  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29255

agctattctt tccctttaga ctttttctag caagnagatg taacatagtt aaaaaaaggc 60  
 taattaatta acaatgctga aatgttttgt agcatagctg attaatatat ggccttaaaa 120  
 cttgcgtttt tggatttaaa gccatcatca aagaacttgc tggctactta aactagattg 180  
 aaaattttaga cacatatagc tgccttaaaa cttgtattgc ataatttgaa aaggatatta 240  
 catatttaca tcatattcct atgtgtatta tgtaatgggt agtttgtacc ttcttttgca 300  
 ggggaaagat tacgagtctg gcttgctctc ttcccaactg tttatttgtc agcaggaact 360  
 gcaacagctt tgattcttat aggagggg 388

<210> 29256  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29256

tgaggatggt gtngcggaga tgcgggatca atatacggat aaagttatgc nctcttttta 60  
 ctataagngc atggcatatt tatgttgcta accaattatg tgacagactg gtatttgaac 120  
 ctectgtaat tctctgaatg gatgggtatc acctgtacat gggttcatat ggttcactga 180  
 tgaaatggat tcattcaact ctacttaatt taaaataaat aaatagaact cattgataaa 240  
 cattgttata taataatatt ntatcactca aagaagataa tcaattctca tcataatcat 300  
 ttttatcaaa aataatataa tctctgaat taattatcac aatacगतag attttgaaaa 360  
 acatcataat aatgaataac ctctatttta aaagacaata taatatatag tgatctcaaa 420  
 acacaaattt tctctttcag t 441

<210> 29257  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29257

agcttttaag cagagtctat ggtataaatc acattcacia gtaacatggg aaaggcaata 60  
 tttggagcaa ataaaccaa atccactact tttccttgat atgactatta ttattaggct 120  
 gtaggttgaa tgatttgaaa gctagactat catcggtgat gccctgtctt ttacacatca 180

agacaagaat ttattatagc actagccaag ctataaaaag aatgctatga tgccagatag 240  
gcaattcaag ggaatctttt gattacattc aagtgcatac aaaatggtac actgtagatc 300  
cagatgatgc attattaata gttacatttc tcaccagct tccacaaact cagcactctt 360  
acagannatg atatntanga atcctaaagt tcactactat gcttttttt 409

<210> 29258  
<211> 452  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29258

tagcatgaat aagacaaaag actcaagact tgctttttta gtttgaatga ttttgtgatg 60  
gtgtcngnnt nntagcgcta gcaatcgtct ttgcagcagt ggatcgtgaa tgaagattct 120  
cttgtttctt tagagattnc agcaatgaaa ttcaactctg aagggtggtga gtatatatta 180  
aatatggcag caagttgttt aatttgcaac ttttgcggt tctgtattct aataattttc 240  
tttgagtctg cagatcatat atatgttttt ggtgtaacgc aactgtccta gatttcaccg 300  
tctcttgctt gtaaagtcac cgatcaacac ttgtttctca ccaatctctg catataactc 360  
aattccttga atcttctgca agagaggtaa gcttacgttt gctcatttcc tatttgcatg 420  
gatatgttca gtccaaaatc caaatcaatg gt 452

<210> 29259  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29259

agcttttaag ctctgtttcg cctcttcaca atatgagggc cttacgggtt ctcttttcaa 60  
actcatgcag aaaggaatag taagccaata cctgtcagag ttcgaggaac tcatgaatcg 120  
cgtcattggg ctctctccat cctttctcct aagttgtttt gtctccggtc tctctccoga 180  
catccgccgt gaagttcaaa tccaccaacc gttgacagtg gccaggttt ctggtcttgc 240  
gcgcctgcag gaggagaaac tcttgatca tcggccacca ccaccgcgac cacaaccacc 300  
accctcaacc ataccacccc ctcaaatcc ttcttgcca ccaactattac cctccccacc 360

ccggccccct ccacaacaac caccncaac actaaagcg

399

<210> 29260  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29260

agcttgatga taaagtcatg ccacatattc taattgggta tcaactcaact aaaggctaca 60  
agttgtatga tccaagaagt cgtcaagtgt ccattagcag ggatggtatc tatgatgaaa 120  
atggaagctg gaattggaat tcaacctcta gtgaaagtca gtccaggata ctgtagaag 180  
aagaaacacc ttcaactgca ccaactgtta acaaagttcc tggcataaga agatcatcaa 240  
ggagaagtca actgccatta cttttgaggg actatgagtt gtttcaagat tcataagtca 300  
acttagaggg agaattgggt cattntgcac tcatagtaga agttgaacct attgaatttg 360  
acaaagtagt gactaatgag atgcggctga aagctatg 398

<210> 29261  
<211> 462  
<212> DNA  
<213> Glycine max

<400> 29261

gcttgaagggt gtgtagccca ccatcttttc atagtagaat actggtaatg tgtctactat 60  
tattgttatt attgttttct ccgtcattga ggtgccactt gagctgcca gttctctccac 120  
ctttgggcgt attcttttga aagattcgtg cccccctttt gcacatgttc tgtagttgca 180  
tcttatctga agacattata ctgacactgc ctaacgaagg caaccactag gtccttccaa 240  
gaatggactc gggaagggtc caagttagtg taccaggtaa cagctacccc agtaagactt 300  
tcttggaagg aatgtataag caattcctca tcttttgcgt atgcctccat cttctgataa 360  
tacatcttta gatggttctt ggggcaagta gtccacttgt acttgtcaaa gtccagcacc 420  
ttgaatttgg gaggggtgat gatattgggt actacgaaca ac 462

<210> 29262  
<211> 399  
<212> DNA  
<213> Glycine max

<400> 29262

agcttctgta ttccttttcg attttctcga tatattacgg gactcaatca gacatccgag 60

taaaaagtta ttgtcgtttg aatttgctca gagcttcgat aatcaattcc gagcatctcg 120

atatattacg ggactcagtc agacaaccga gtgaaaagtt attgtcgttt gaatttgctc 180

agagcttggg tattcaattt ccagcgtctc gacatattac ggtactcaat cagacatctg 240

agtaaaaact taatgtcgtt ttagttttct tagagcttcg gtatttaatt tcgagcctct 300

cgatatatta taggactcca tcagacattt gagtaaaaaa gttattgtca tttgaatttg 360

ctcagagctt caacattaaa tttcagtggt tccgatata 399

<210> 29263

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29263

ntgagcaaat tcgaacgaca ataactntnt actcggatgt ctgattgagt cccgtaatat 60

atctagacgc tcgaactgga ataccgaagc tctgagataa ttcaaacgac aataactttt 120

tactctgatg tctgattcag tcccgtaata tatcgaaacg ctcgatattg aatgttgaag 180

ctctgagcaa cttcaaacta cagtaacttt ttactcggat gtctgattca gtcccgtaat 240

atatcgaaac gctcgatatt gaatgttgaa gctctgagca aattcaaacg acaataactt 300

tttactcgga tgtctgattg agtcccgtaa tatatcgaga cgctcgaact ggaataccga 360

agctctgagc aaattcaaac gacaataact ctttactctg atgtctgatt cagctccgta 420

atatatcgaa acgctcgata 440

<210> 29264

<211> 360

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29264

cgttgcacgc ttgtgactct tgtcaatctc tttaaaacta gtcacttaaa aagctgtgac 60

ttttgaaaaa atcttcagaa acaagtcact tgtagaatta tgacttttgg aaatgtattt 120

ttcaaaatca gtcactggta atcgattaca catcaacaga tgtgactctt cattttgaat 180  
 tttgaaaatt aaaacgttga gaagctctgg taatcgatta cacaagttta aaatacttta 240  
 aaactgttta aacataagtt ataactcttg aaatttgaaa tcttaacgtt ntagaacact 300  
 ggtaatcgat tactaccttc tggtaatcga ttaccagaga gtaaaactct ttggtaatga 360

<210> 29265  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29265

tcagacgata cgcaaccttg cccatcctct ccatcaccgc gaatgttcca tagtacctct 60  
 ttgccaaactt tgagtatgat gtctcaaaag ctgaggtttg acgatgaggt cgaagtttga 120  
 ccaacaccca gtccccgatg ttaaactctt gaggtcgtct ttgtgcgtct gctgtctact 180  
 tcattctctg ctgtgccctg agcagtttcc gactgagcag cttcaaaacc tcgtcgcgtt 240  
 ggttgagcac ctcatccacc gtgttgatag acgatgtccc ccccaaatat tccggaatag 300  
 caggtgggtt ccgaccgtag atgatcttga acgngtgat ccttgtgcct gagtggcatg 360  
 aagagttgta tgaccactca acccataaca ggaattgccc ccacg 405

<210> 29266  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29266

tgcacgcttt tatatgngtt tctgagcgca caccatggaa ttcccgtgat tcgtaggcgt 60  
 gtgtgggttt tcggaacctt ttcttggttc agtataattc atggaaagaa aattaaata 120  
 acattgggct tcaaaggcca aaggggttga ttaagcttcg agcttcgcac aattggggag 180  
 aaacaatgta ttgctggaac atgtcatata tatattggat caatgtcaca tacagagaaa 240  
 gtcacttggg cactttgtta agacgagatc tgcccttggt attaacattt tcgatcagca 300  
 gatctttcca tctctttaan atcgagaaat acctgtataa cacttttata tttaattntg 360  
 atattaagct gaccactatt ctctttaact aaactatcta ggtatggata tggtactcca 420

gatgatgtac cttctatatt n

441

<210> 29267  
<211> 435  
<212> DNA  
<213> Glycine max

<400> 29267

tctcctatta acatagtaac aacaaattac gccttgccta aacttgattt ctagaccaag 60  
ttaattgaaa tatacatgtg tgcattgttg ttaaattccct attcatcact ttgtcaattg 120  
attaagctat tacaatccaa tgccttcaaa ataaagactt agtacatgtt atagggaaga 180  
tggagttcct tctttctttc tttctttctt tttttcttct taaaggctgg agttacttct 240  
tactgtgaaa cataaatcaa tataccagag acacgtttga gaataccttt atctaactt 300  
gctttttatt gcgttataat tctcttaggt tgtaacatat tctatatgtc atttacttgt 360  
caaacaacaa accacctatg catgtataag caaaaccaa taatgctaata aacttggcct 420  
taaatacatct ttcatt 435

<210> 29268  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29268

agcttttgaca tcaacaatat ggttgaaact ggtccaacat gggcatcatc gttcttcgat 60  
tcagttgctc agaggatgat gcagtagcc tcaccgacga attgctattn tgcataagatt 120  
caaaggcatc tacataactcc cagtaaaatg gatcgcgctn tgttgacctt gggttcctgc 180  
tcatagctnt ctttggtgcc cccttcgtgt taacctttgc tggaggagga cacatcgaat 240  
tctgatcagg gtatgcaatt tcccaaagtt tagtcttcaa agtaaaactta ccacaaacat 300  
caagttcttc gaatctttta aatattgttt ccattacttc cttgatgctc acctcgggct 360  
cagataaacc ttgggtctgaa naacttagtc tcctccagaa 400

<210> 29269  
<211> 457  
<212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 29269

ntcaccctat aattccncca nnattgggca aatttgcttt gaattttttt ttcctttgat 60  
gaatgatgct ctctacaac ctaagacaag gtagaaggag ataaactgta caggctcaag 120  
gttcaatcaa ataatcatac tttcagctca aaatggatgc aagggataaa tcaatcatgc 180  
acaaggtaag cgttttagct aagtggctat cttcaatcaa aacatgggtct tcatcctctt 240  
cagactcaag tattcagtc ctaactcagag attcatgcaa aaaccattac ttactactag 300  
tcgttctctc acaattaaag atcacactct cactgggttg cggctaagtc attccttcac 360  
aatcaacctg acaaaccaac taacattntc aatcataatc ctaattccat gttctttctc 420  
ttctaataac tgcattgctca ttcaaggcat atgatct 457

<210> 29270

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29270

agctttttat ntgttaaacc aaggctcatag gctaattgtt cacacctttt ctccatgctt 60  
cttgataagt cctatgtaaa gcgcttccag gcaaaaccat tagtaagaaa aggcaaaact 120  
attagtaaga aaagtctaac agacctaaag tctacttctt aaaagttcgt tgtcattaag 180  
acattttctt cttaaagggt ttgcttcaa caatgttact acttgaaaag aaacaatcta 240  
aaatttaaaa aaaaacaata tatatatata tatatatata ataaactaca tgttttcata 300  
tttatcatca aatataataa attgaaaaat gtatgcta atgcatctt tgaaatacaa 360  
tctttataat atatttggtta atagatataa acatgtgc 398

<210> 29271

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29271

tgctacaagt ttagtagaaa catgctttct aaccaaaga aaaatattga atgtgaagga 60

gttaatcagc acttttagtt gtaccagttc cctaagtata ctctggttct agccagcaat 120  
 atattttggt gctaaccagc atgtcctttg gcttctaact gcttgactta attagctcca 180  
 ttctttttacg tatcaaaaga acctagctct gacacctagt tagtgctgga taatagacca 240  
 taaatgctac catgacatag ccttacgaca aatgtatact attccaattt ccaagttcta 300  
 agacatatta aactctntta acagttagta tagatagccc tgattgtcat gttttccttt 360  
 atatattgac ttttatttct tatctaactt ctattcgcag t 401

<210> 29272  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 29272

gcatgtgcac gctttcaagc tattatcgaa gttcaacatt aaatttagaa gtgtttacat 60  
 tattatttaa ccaagtttaa attgagtttc tattagtttt aacacatata ctgacttaat 120  
 tagtctttta tttatttatg ttttattttt gctaactaga ccttctccta taatgatttc 180  
 gttttctgaa atactaataa taatacatc tttaatattc cgtatttttt ttaccactc 240  
 tcttgtaaaa agaaaatttg ttcgggcttc attaaatatg agaattctcat tattctatat 300  
 gtatctgtgg agtcttattt ctaaaacggt ggaattaatt cacataaatt tcaagagagt 360  
 tgggtacatta aatgtaaggg acgttggtgt gtgatttggc tcgatattta 410

<210> 29273  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29273

tgcttgtgga gcttctatgg aggctggatc tttgagctta ttgttgtcct ttaatggtgg 60  
 ttttccacca tggagatgca gcggaagaca aaggagaaga ggggagagga ggcgtcatcc 120  
 actatggaat aaaccatgga agaaggagct tcaccaccaa gatgagcctt ggataagaag 180  
 cttggaagga tgcttcaatg gaggaaaaga aagagggaga gaaagagaga ggggggagca 240  
 cgaaattgaa tgaagaaaaa gggagagaag ttgaactttg agttgtgtct cacaagactc 300

ccattcatca nagttacaac aagtgttaca catgcttcta tntatcagat angtagcttc 360  
cttgagaagc tttcttgaga aaa 383

<210> 29274  
<211> 372  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29274

tcaagctttt agccccaatt ntctataaat agggggagaa gtgaagtga aaagggttca 60  
gccccttatg cacttctctc tctttcgaat ttgcttgga aaattgtttc cgtgaagaaa 120  
atctaagccg aggcgcttcc gaaacgtttc cgtaacgttt ccgtaaggaa tttcggaag 180  
gtttcgatca ttcttcgact ntcttcacgt ttcttcggtc ttcaacgggt aagtacctcg 240  
aaccaagctt ttcgattcat tctatgtacc cgtgggtggc cacattgtgt ttcgtgtatt 300  
tttattctcg tttcatttac tttntatacc ccctttntga cgtgcttaag ccatnntatt 360  
taagtcattt ct 372

<210> 29275  
<211> 400  
<212> DNA  
<213> Glycine max

<400> 29275

gaactataaa aaactaagct tgccgccagc tgcgccagc gagattgttg ctctcttctt 60  
ttctcaacct tttggaggaa gggctctaaa tgcccaagtg ggccaaaatt gctatctgca 120  
ctcccccttt tactaaatgc accccttcta tctttgtggg aattcttttt ccgtaccgta 180  
cgaaacttta tgaattttca acgatactta ttcaccttcc tcaacgttac caatcttttc 240  
ggattatgca tttactcttt tttagctttc gaagacgtta cggaaactca ccgattgcgc 300  
aaaaacatct tttattgact tccgccacat tacggaattt cacggatcgc acaagcctgc 360  
ttctctttga tttccgagat gtctcgtgac ttcatttatt 400

<210> 29276  
<211> 357  
<212> DNA  
<213> Glycine max

<400> 29276

agctttatgt gtcttaagtc atggtttcct ttcttttttt tttcttggtt gtgacaattt 60

tgtacgttat tcagacattc cctgggtccaa caaccttttt gtatatatttg ctttttcttt 120

cttccgatct ttgatcgga aattttcttt ttctttcgct ttctccaat ttttgatcgg 180

ggattctcgc tttttctttg ctttctcca atctttgatg gggaattttc ttttttcttt 240

tgctttttga agcacattca caacttaaca gtaaataaaa ctcttttttt tgggagatcc 300

ttctgttctt tcttcttagg gcaagggtaa aaattcctat catgggtcaa ggtttat 357

<210> 29277

<211> 403

<212> DNA

<213> Glycine max

<400> 29277

agcttggtta aaattttcta actattatag gataaagtgt aaactaacc cagcttgaga 60

gatgtgtcag aattaccaca gtctggagga aattcagatg aactgcaggt aaatgactcg 120

tatggttgcc tttgttctcg tacgaagctc tgtacataaa aatttctatt acattattta 180

caccagttat tgctaagtca taaagtatct ctatcaggaa gctcgtggac cagaaataaa 240

tgggcaagat ttgaaaggc gtaaccacct gttcaattt ctggttctct tccataagtt 300

tggcttctt cagagcaac attgccaaac atcattgcag aaaaagggtg tgtgaatata 360

gatagatgaa aaattgctta tacgctgtat tattataaac aac 403

<210> 29278

<211> 476

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29278

cactcaagct nggaaagaac atctactgca agcacggtgg ttgtgactnt gtgttttagta 60

aaaaggataa atttgaaga aaaaatattt agaaaagtta aaactaatta acagttaaata 120

gacagatgtc acaatttaata tgggtgggtc actttcttgg ctaagccctt gtctgttata 180

gcatttttca aactaataaa ttgataaaaa aacatccttc tacaaaacta attttattaa 240

attgatgaaa gaaaataata ttattaatat tagattcaaa actaaattaa tatataatgt 300  
 ttgggtaatt gagtcaaagt ggatgactta cttccctggt taaccatttg agttatTTTT 360  
 gttatactaa actttntaac atgtgatggt acagaaaaac aaaaatcaaa tcatacctcc 420  
 agtcattgcc atgaaatagt tgtcttggtt tggctcttct aagctctctc tctttc 476

<210> 29279  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29279

agctttctta ttcatttttc aagttacaag tgaactcccc aagaagtgac atggcccact 60  
 tgtgggttttc caatctagct tacattctgc aaagttagaa tatgaaaatc caattaaact 120  
 caaggaggta cctttgggggt accttaaacc aacattgggt gtgcccttaa ggtacttaat 180  
 aatccttttg acaacattta aatgggtattc cttgggattt tatttatatc tttcacatat 240  
 gcacacactt agcatgatgt caagttggct tgtagtcaaa tataggagat aaccaatcat 300  
 acctctatac tttgactcat ctaccgattt acctttttca tccaagtcaa gataaatgga 360  
 tgttgccatt ggtattggtt cttccttaca ctnttccata ttg 403

<210> 29280  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29280

agcttctccg acagcccttg gacccatttg ctttttatgt angtggttct tttcttagct 60  
 ttggttttgt tatgcactac attaggggtac gttagtgtaa cgttagggtta gtggaacctt 120  
 atggtagaag acggaacctt atggtagaag acgaaaccta gggtagaaga cgagaggatg 180  
 ccggaaaaaa tggcgcaaaa ggctgacgac ggagtcttcc ggaagaccgg ttaggggttc 240  
 ttccggaagt aaccaaactt cttccggaag aacacttctt tcggaagact ctccgataac 300  
 ctcttccggg aactttcc 318

<210> 29281

<211> 408  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29281  
  
 agcttttcat catatgttnt aatctacaac atggcctttt cccagtcaag ggtagttggt 60  
 gctcgagcta ccatccgcat caactctttc atgtgtgctc cgggatactt cttcttccag 120  
 ttaccataca aatgtttgat acacagacga tgttctacgt tttcaccaag ctctttgatt 180  
 acctcaacca aaccctgaaa aaaaacagtg cacaaattaa atgaaaaaaaa tagtgcacaa 240  
 attaaatgaa agccacagtt tttatttacc ttctgtaggt caaaaatgaa agcccaacat 300  
 ccctcctaaa taccatctag gtcagctatc tacaaatcaa caaaccactt ccaagatgaa 360  
 taattntcag attccactac aacataggca aaaggaaaca tttgattg 408

<210> 29282  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29282  
  
 atatgcatgt gaatttngaa gcattttcaa gaatcaagcc aaggctattg tgcaagccat 60  
 caatggggca aaacacacca aatgattatg atgatggatg gctcaaattc tcacaaaggt 120  
 aaactcatca ctttccaaat gaacttttaa aactatcatg acatgtagaa gagaatcaag 180  
 ggattcaagt cacaaaatgt caagactctt attttcaaaa caattacca tttcttgaac 240  
 atatcctata attcaaagaa aaaaacatgc aaagttgtac atgcgacaaa aactgacca 300  
 aaatattaaa ctagaaatcc gacganacta acaacattaa caaattaaca caactaacia 360  
 attaacanga gactaacaaa actagcanaa ccaaagaaca ctctccncc cccccgcat 420  
 acttaacaaa caca 434

<210> 29283  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
  
 <400> 29283

agctttgtct gattaacata aaaattggat ttagaagttc taatcaaagt tggctaaaaa 60  
agttattcgg tgctgtgctt aaatattatt gttcatgcat cttgggggtg cgacttacag 120  
agggtttgga gagaaatatg ctgcattgaa atacggaaga gagaaatatg gtgattaaaa 180  
atatatgaga aatagaatga atttatatgt acttggtttg agagaaagag tgggtggatg 240  
catgtatgct attttttatg taggtgggaa tttttccaaa aatcttaatc acgtatatat 300  
ttgttattat taagataagg ctttattgat attattagga taaaatattg acattatcaa 360  
taaaggataa cttacatgtc ataatatatt t 391

<210> 29284  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29284

cgcccttaac gataaaaaata acacaaattg atcttaaaat tatattttat ctttaaataa 60  
aacgattttc aattctatca aattagtcca atagaaatat attaatatatt aagtctaata 120  
aaaaattatt gacattttca tccaataata ataatttatt aacatttttt gtccaataga 180  
acttactcat atctaagtca aaacaatgag tgacatttcc ctggaataag aaatatattg 240  
acatttccgt ttaacaaaaa ttattgatat ttacgtccaa aaatgatatc ttattgatan 300  
ttttgtccaa ttttaattagc atgatcacat tgacaatcat ttgaatgata aatctatcct 360  
tttgtgtcat gtagaactat ttattaatca caacgaacaa tagttaacga ccgactanta 420  
ttatcacact tcttatat 438

<210> 29285  
<211> 285  
<212> DNA  
<213> Glycine max

<400> 29285

agctcagtag cccggtgagt actctagaga tctctctgca tgcattgcgcg cgttttctag 60  
cttttattca acattctcac gagcagagtc tgctgacccc aacttgagag atgcgtgtga 120  
atatccacag tgtgcacaga aagccagagg aaccgccttg ctatgtcttg ttccgagcct 180  
ttattctcga actaaccttc gtacaaacta acctgcattt ctttatctac gacacatgct 240

gcttcgttac tttacatcta tcttaggtgg cgagtggacc actat

285

<210> 29286  
<211> 529  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29286

ccccgcgcac gagctatgtg annccattgt annaccncga cacctagaaa actcacgctt 60  
gtaatcgccc gttccgagga ggttgccgct tttgccccgt ttgcagacag cggaggcgcc 120  
agagagcgat attcatgatg gccgctcctc cattaaggga taagattcat gtaacctatc 180  
tacctacgac attattggta tccacaacat agaaagtttt aaccattgat tagacatttt 240  
attctaaagc aactaaactt tttctacaat tcaaaattta tctacaatct ccataatctc 300  
ctcatcccaa cacacttgcg attgtattct taatctaaac tattattatt cgatcacaca 360  
gtcaaactgt gatgttgaat tacattactg actactcata tcgagagtac atatcaacta 420  
aattctttac ctacgctgag atgcatatgt gcatgcttta aatgttacct atcgtcattg 480  
tccggattaa atagtcaatc atatgctcac aaatctttat aatagaacg 529

<210> 29287  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29287

ctgcaagctt gtgtctagtt tttctaaagc anagggttgt tcattctgtg tgtatcaaga 60  
gtactatcca ttccatatat aatcacttct tgattagggg tttctttcta aatgaagggt 120  
acacggcaaa ggaaaagtat tgaattataa ctcccgaaga aataataata caatacttct 180  
gacctttaat ttttaacacat tcataattat tacattttta gaacagttat ttcataagtc 240  
aataatcatt tatccttttg gtatatctag attaaaaaga agaggatta tatagatttt 300  
acacaatcat taatcactat atgataattt caaagacttt taaagtattt atcttataat 360  
aagttaaagg atgacttggtg actagatgat aatat 395



<210> 29288  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29288

tgagcacctc ttccttcatt gatgggttga gccttctcta gggctgtttg acangtctat 60  
 attcttctc cattattatc ttgtgcatat agtaggcagg ctgattcett ttagatctaa 120  
 tatgtgccac ccaattgcct cttctgtct cttgaggaac tctatcaacc tatttcttct 180  
 tctgttgtaa gcttactatt gatcaccaca ggcttgggtct tgttctcttc caagaacata 240  
 cttcaggtgg ttaggtaaga tctttagctc caccttgggc ttctcaggtg gacttccgct 300  
 tttcaattct tcaaaactgg tccccctgc aggcataatt tcttcacaat ctaagccttc 360  
 caagcaagcc cataaattct tcttctcttc actgggttaga caatctacaa cattgggtcaa 420  
 agctttctcc agtaaagttt atg 443

<210> 29289  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29289

tttcaagctt tcttcgggcc atttctcgcg aaggcaaaca tttggaaagt tagttttacc 60  
 agtgggacac tactaaaaaa aaatggcata caacctctc ccataaatac aaacatcaat 120  
 gtaaatttag agcaagctta tgcgcatatt tcttacgaa cgttcacttg cacaagacat 180  
 tctattaact aagaaaaatg cacccatata caatcaaggc agcttcgta cctagattat 240  
 ttacatgtac ttccaaggtg tatttggttac ttacatcaca cacatttctt tggctaaatt 300  
 tacatacatg cataactcaa gcattntggg gtaccaaaaa ttgcacatgt gcacatcttg 360  
 gtatttctaa tacctgtaca tgcacaaact tcatgatgaa tcttg 405

<210> 29290  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 29290

tatacggcct angatgtggt tttgtgacta aattcaattt agacacaagt cttgcacttg 60  
ccacattgct acaactccct ccatcattga tcatcatgca aactttgcca ttgatcaaac 120  
atctagtgtg gaaaatgttt tctctttgac tttcctccat agacttcaat tgatggccaa 180  
gtaatcatca acaattctcc ctctggtggt ttctccactt cctcctcctc atcctcactc 240  
tcttctccct tttcaacttt ggactcacta atgtactctc cgtctctaag aatcatggat 300  
ttcttgatag ggcaactcata tgcataatgt cccaagccgt ggcaccgaaa gcacttgaca 360  
tcccgaacant tttnttagga ttgttcttgg acatttggag gagttnttga tggatatngt 420  
gttgccattag aggtggcaac ccc 443

<210> 29291

<211> 402

<212> DNA

<213> Glycine max

<400> 29291

agcttttatat gcattgcata ggattcggaa tctagtttga taaagaataa gagaaccccc 60  
tatagccttg ttccattccc agaccagcac ttgaattttc tctaatagct caaaagatag 120  
ttataaaggc aatacaaaatt ctaataaaact aagggacaaa ttttttttat aaatcctttc 180  
aaaaagaagt taaccaatta agatctcact taataagaaa aagtagggaa gccaatgtg 240  
aagcaaagca acaataaaaag acaacaacat gagaagacaa gaagcaaaat tcagtcctat 300  
caagcatacc gctgcatgaa ctttgctcaa aatcaatata atggcacaaa gggatgcaac 360  
aacatgagaa gataagaagc aaaattcagt cctatcaagc at 402

<210> 29292

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29292

tgctaagccc aattccacan attntcaaaa cagataagga tttgctctta gcgaggcaag 60  
gcacgcttag cgcaactact ctattgaaca aactggctt agcgagcagg ctcgctaagc 120  
ccaattccca aaatttgaaa aatagagaga taattgcgct tagtgtgata gggcatgctt 180

agcgcacaac aaaacacaaa aatttctaag tgtctgagaa cacattactc gcttagcgca 240  
cagacgcact tagcgagttc ataagcaatt gaactttcaa ccagagaaca tgaacgtgct 300  
tagagggaca gagccacact tagcgagttc atctagaagt ctagatgttc aacagaaacg 360  
atgaactcgc ttagcgcagc atggtgctta gcgtgctcat cgcgatttcc agaaaaagca 420  
ggggcttctc acccctccac t 441

<210> 29293  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 29293

agctgtgata cgcaccttca cagctctgga acacggtggc aagagtcagt acaacacaaa 60  
taaaactata ctcggggtga ttgattggtt caattcaaca tcctcaaagt gtgctaactt 120  
ttaacacctt ccaaaatgaa attttttata actttcttaa gatcaagatc atatataatt 180  
attaacgtca cttatttctt ttttttattt tatcaaacta aattaattat cgaaaataat 240  
tcaagtttca catcagctaa aaataatctc acattaaaat atataagcga aagataactc 300  
tcatccatta tttaacatta tcttaaagta ctctatgtac aatggatcca 350

<210> 29294  
<211> 322  
<212> DNA  
<213> Glycine max

<400> 29294

catctaacca cttaattctg gtcaataaaa tcaagtaaatt attctcatat tgcctaacaa 60  
atgtttatgc cttttttata attaaataaa aatcacattt accacctaaa ttctctattg 120  
atctcatgca taatccggtg aaaaaccaat ctttatacta atatgtgaat gccatatggt 180  
acaattcatc tattatatat acaacataca ctaccgtacg atttttttat gaatgtcaaa 240  
cttcaaaaca ctacataaaa cactaagtct tataatgttc tctgacgaca tgaataatct 300  
acataatatt attaactact tc 322

<210> 29295  
<211> 368

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29295

agcttttggc aagtgtagca acatagtata cggaaangat gctctagctg tggatagagc 60  
acggcacact gctggagaaa tcgctataag agatcacggg ccaattttta ttgaggtgca 120  
atcagctccc ttcattgcgt agacgatcat tgcctgatgc cacatcattt taatgttcac 180  
cgagctgatg ctaattggcta tataaccttc aggctctcac tcatgcagtc ggacatcact 240  
ctacatctga tgagtaaact aagtaccggg gaactgatga gatcgaatat tgggaatatgg 300  
caaggaatcc agtgaatacg gccaaaagac gggtagaaag gaatggttcg gggagtgaca 360  
aggatgaa 368

<210> 29296  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 29296

agcttttcata atggttgcaa agaagtctat ctatgggggg cagaatcact ctcattaatt 60  
cagattttatc aacaaagtgt accataattc tatttaattg atatccacgt agggagtgat 120  
tgtagcctat aggggtgtcta tacagggtat gtctatacag gatatgaagc ataagggtgga 180  
ccttgcggtgt attcaagaca caaacaagga gtcttttgat aagctcatct gccaatctat 240  
gtgggggagat tcctatgttt cttggaattt tgtaccttca atacaggcat caagtggatt 300  
gttgcgcttg cggaataact catattttca ggtggagagg agggataagg gtagaaatat 360  
tctaattgctg gaatggaagt gggtaaaaga gaatcagtgg a 401

<210> 29297  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 29297

cctcattgca gtcattttcac acaacataac ccacatgaca taagattaag acatgggtgtg 60  
aaggaactta ccgtacgttt gagcaatcct ataattttctt gatcttgcca aagccttatg 120

tcaacaatat tagcaagcaa atcaacctcc atcaaaatgt gggattgttc attgggatgc 180  
 tgacttggct tectcttaat ttcttcttcc ttacgattg agaggataat aatcttagac 240  
 attacacaat aataatatat agatcaatta aaataagcat catatctatt tcacacttct 300  
 taatattaca cctataaagt cacatcaacg tcttcattac cttgtctcga cttttcattg 360  
 aacctttctt ctaatatata caccgacacc tct 393

<210> 29298  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 29298

agcttctttg agaattcttc cttgagaagc tagagcttag ctacacacac ccctctcata 60  
 actaagctca cctcctggag aagcttcctt aagaagattc ctaaagaagc tagagcttag 120  
 ctacacatac ctctctaata gctaagctca cctccttatg atgagaagct agagcttagc 180  
 tacacacccc ctataataac taagctcacc cctatggcaa aatacatgaa aatagaaaaa 240  
 aaaaatccct actacaaaga ctactcaaaa tacctcgaaa tacaaggcta aaaccctata 300  
 ctactagaat ggccaaaata caaggcccaa acgaaggaaa aacctattct aatatttaca 360  
 aagataagca ggctcact tagtccatgg gctcaaaatc taccct 406

<210> 29299  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29299

tatggcctca tcaaaatact tgtttcccga gggaaattct ataaatagat ctctcatctn 60  
 taatggagtg ggttaccact actggaaaac ccgcatgcaa atctttatag aggcaataga 120  
 tttaaattatt tgggaagcca tagaacaagg accttatgtt ccctctataa tagccggaag 180  
 tgcaacaata gaaaaaccta gagncaaatg gactgaggaa gaaagaagat tagtacaata 240  
 taatttaaag gccaaaaata ttattacatc tgcccttaggt atagatgaat actttatggg 300  
 ttcaaattgt aaaagtgcta aggatatgtg ggatacacta caagtaacac atgaaggcac 360  
 aacagatggt aaaagatcta ggataaacac tntaacgct gagtatgaac tntntangat 420

gaatgtaaat gaaagtatac aagacatgca a

451

<210> 29300  
<211> 404  
<212> DNA  
<213> Glycine max  
  
<400> 29300

agctttttaa tgatttgatt ttcaaaaatt aaaatgaaga gtcgtatctg ttgatgtgta 60  
atcgactaca ccttactggt aatcgattac cagcgactga tttcgaataa tacatttcca 120  
aaagtcacaa ttcttcaaga gacttgtatc tgaagatttt atcaatagtc acaacttttt 180  
aagtgactag ttttaaaaga cattaccaag agtcacaagc tttgacttga gtcatcaaga 240  
gattataaat atgtgaccat ggcattgagtt taataattat ccttcagcat ctttatcatc 300  
catcattcat cgatcatctt tgaatcatct atctattcat atgtttttac acaattgtat 360  
gattcatatc tcttcatctt tctaaaagtt tttgatcagc actt 404

<210> 29301  
<211> 452  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29301

gagctttact aaagattact tgggtgttca gatagtctag acatttatga tgaagcactt 60  
anagattttg actatgtaag aggttagtca taacacttat tattaaatgt tctgatatga 120  
tgatgagaac ctaatatcaa tgtgcatctg ctcatgttca gaagatcatt acatagataa 180  
tgtatctgtc acttgttatg agaaaacaca ctatgtaatg atgagtcac actcagaacg 240  
ttgctggggt gactacagtg ctcataatgc tatactcagc acgagatggt gacgctcaga 300  
atgttctagt gcaaagtcac tatatatgac aacgcataac ataatgttga gaggaacaga 360  
aaagatgatt taacacatgg atattatacc cgttcacctc aatcttgccg tgcgttcaaa 420  
cctcacccaa actgatgaaa tgttcactaa ca 452

<210> 29302  
<211> 323  
<212> DNA

<213> Glycine max

<400> 29302

gcgcgtttgc tactcttggg aactgtctaa ggaagctact catggaggtg agcttagtta 60  
tgatacgtgt atgtgtagct aagactctag cttgtcacgg aagtgatctt attgaatctt 120  
ctgcaggaag tttcctcaag atagcttcta acggaagcta cctagtctat ctctagatgc 180  
aggtgtttcg cttagtgcac cactgatgta tgacagtcct gtgagacaca cctgaaggca 240  
tcacatgtct ctctctttct tccttaactt actggctccg gcctctgtct tacgatccat 300  
ccatccttat ctccattgaa gca 323

<210> 29303

<211> 363

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29303

tcaagcttnc ataagaaaca gtatgcacta aaacatacct gtatctgcat ttttatattg 60  
atatgttcta ccacaaaggc tgacatacct aaggtgtccc atatgactac ctaagtatgt 120  
attgaaacta aaaataagaa caaacctacc taatgggtcc ctatgtgcac tcaccatgaa 180  
gatgttaggt gtacaagtga ctttacaaaa gagagttgca ccactcataa cattcatcat 240  
accacctatt ttagggactt ggtacctaat aatatctatt ttgggcacca acaaagcaca 300  
tggatttaag ctcttgcgaa ccataccctc atactacaac ttctttactt gaggaatata 360  
ctc 363

<210> 29304

<211> 319

<212> DNA

<213> Glycine max

<400> 29304

agctatacct gacctattat aagccgatac gcagaaatct aaacagcacg atacgcgcat 60  
gttatgagca atgtccactt gacacactct gcaaagcact ggaggatcgg ttttgcacct 120  
aacatacgca aaatcctgac agctagctag ctaagagcta atagacgatg atttttgttc 180  
ttcacacata cataacataa tagctaatac tcaaccatac agtcattatt caccatgtaa 240

atttaacgcg ggaatccgaa ttcctatatc aaaaaagtct tagatgcgtt gaacccgaat 300  
tctgaacact atctattta 319

<210> 29305  
<211> 396  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29305

agctttggtc tagtttttct aaagcaaagg tttgttcatt ttgtgtgtat caagattact 60  
atccattcaa tatataatca cttcttgatt aggggtttct ttctaaatga aggttacacg 120  
gtaaaggaaa agtattgaat tataactccc gaaaaaataa taatacaata cttctgacct 180  
ttaattttta cacattcata attattagat ttttagaaca gttatttcaa aagtcaataa 240  
tcatttatcc ttttggtata tttagattaa aaagaaaagg tattataaag attntacaca 300  
atcattaatc actatatgat aatttcaaag acttttaaaa tatttatctt anaataagtt 360  
aaaggatgat ttgtgattag atgataatat aatcag 396

<210> 29306  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29306

tgagcacctc ttccttcatt gatgggttga gccttctcta gggctgtctg acaggtctat 60  
attcttcctc cattattatc ttgtgcatat agtancgagg ctgattcctt ttagatctaa 120  
tatgtgccac ccaattgcct ccttctgtct cttgaggaac tctatcaacc tatttcttct 180  
tctgttgtaa gcttactatt gatcaccaca ggcttggtct tgttctcttc caagaacata 240  
cttcaggtgg ttaggtaaga tctttagctc caccttggtc ttctcaggtg gacttccgct 300  
nttcaattct tcaaaactgg tccccctgc aggcataatt tcttcacaat ctaagccttc 360  
caagcaagcc cataaattct tcttctcttc actgggttaga caatctacaa cattgggtcaa 420  
agcttt 426



<210> 29307  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29307

agcttattat aagaaagtga agtaaaaaac ttttaatat ggagatttgg tttggaaggt 60  
 tatcctgccc atggatagta aggatcgagc cttangcaaa tgggtcccaa attgggaagg 120  
 accgttcaaa ataattcaga tctattcgaa tgggtgcttat gagtttagagg agctaacccc 180  
 tcagaaacgt actttgagca taaatggtaa gtatttgaaa aaatataaac caacactgct 240  
 cgaagttaaa ataagcatag aatgagagaa atactggaaa catagaaatg gcgataacag 300  
 taaattgcc aaaaagggcc tgtgtcagta ttacatcaaa agtagaatcg aaatacagaa 360  
 ttcgaaataa agatattata agttctacta atgcatga 398

<210> 29308  
 <211> 453  
 <212> DNA  
 <213> Glycine max  
  
 <400> 29308

gtttaagtga aaggatatga ctcttcacat ttgtttttga atttctttat tcaacggcac 60  
 tagtaattga ttacaaaaac attgtaatcg actatagctt tttgaaaata attggaacgt 120  
 tgtaaattca gtttgaaaac tttttcaaac tcattttgct actggtaatc gattacaaca 180  
 atatggtaat cgattaccag agagtaaaaa ctctttggta aaaggttatg tcaaaaattc 240  
 atgtgctatg caaagtgtta gtgcttggct ctactgagtt ttaaaagaat ggctaaaatt 300  
 ctgttaaaac ataagcactt agacaatgaa tgaaagctgg agttgctgca catgatgtct 360  
 aacattatgt caaggaatca gatcgggctg cacaatgcac aatgcacgat ataatgtcat 420  
 atgaagaatt gaagctgcaa gatccacgat gtc 453

<210> 29309  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29309

agctttctca tttattagca tctatgaata tattaggagg aattgaaaga taaaacaggc 60  
gattagaagt tctcccaccc tacaaaaaca attttcatat tcaaaagtat ggttaaagtc 120  
tgattgtaaa aatgctcaga ttagcttcaa ctaggcagac aaaanaaaaa tagaaaatac 180  
aaaaataagg tacttttact gttcatatat agacttggtg caaattaaaa tagcttgcaa 240  
aaaaaaaaaa acataaaaaa gtgcagaggg ggagaagaaa agatagaata caagtgtgtc 300  
taaggaaaca caataaccaa acatttaaac ttattcattc caatcgcaac atgaacaaaa 360  
tgttntttct taataatgtc atctagcatt ggtatattca aag 403

<210> 29310  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29310

tataaaactc agctttaatt ngttgtttgt cttgatagta tttaaattac tttttactag 60  
atgagttcaa taatcaaagtg tgataaaatt gctgagcata actataaatg ttattcaatc 120  
tatcatgtta tcacttttag taaataatta ttctttattt tattatcata ttattattt 180  
tattaaatcg ttaattcgac aagtctttga ttaaattata ggcttggtat catgaagaga 240  
ttatgataat gagaaaaagt tattttataat ttcattctaa attgttcttg attgtaagat 300  
tattgtgaat atgatatcaa taatccggat aagttaatat atatctaagtg gtctttattg 360  
gataaagatc aatagatcta atttattaaa ttgcatataa cgattatgta tatgtggatg 420  
ttataattaa agcgacttaa ttgagaattc ctaat 455

<210> 29311  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29311

agctttctac aagttttctc acaaataacc atcatgaagc agaaaactaa caaaactacc 60  
catcatatct cccaaaaccc catacccacg aaatttaaga gagaaagaag tccacccaaa 120  
cctgaaatct cgaagtccca ctctagacca cgcacttcac gaccccgaaa atgccctcct 180

ttcgcgattt ggggcagaaa tgagcaccaa aggttggagc tttgttgggg tttcaatgga 240  
 gaatgagggga gaagaaaatg gcaacgtgag ggagagagag agctgtctga aaaaaaagt 300  
 gtgggggctg agtgaagaga gagaaaagct ttttggtttt taaataaaag gggtttctct 360  
 ttttctatta ttntatttga gcaatgccac atgtctccat 400

<210> 29312  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 29312

tactcaagct tggtactcat gtgacaccct ctacccctca catgtatact aatattggat 60  
 ttttaattcac atattaatta caagtatttt taaaacattt ttttttccga aacaagtctt 120  
 tcaaagggga aaaaggctca cattcatttt cttctacatc atattcaaac tcgtccaaat 180  
 aaataataaa gtaatctcgt ctcaaacaag gtcgtctaaa cttcatacaa ttaatataga 240  
 acttatatcc tagtgtcaca tcctatcata gcgttgtggt cctgtgtcct ctaccatgag 300  
 gttcttcata gtcattccacc tattcatctg tttccccgaa cacaagttca agatcatcac 360  
 aggatccaaa cacaacaaca cacagggagc gagtcatcac attcatacct aatagagaga 420  
 c 421

<210> 29313  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 29313

tcaagctatt cttgatacta gaagcttctt gaattctgct catgacacta gaaatatatc 60  
 ttgatcatga actcgtgac tgaatcttga aatcattctt tgtggatggt gtcgtcatct 120  
 taatcatcat cgaaacttca cgaatcaact tgattcatca tcatgaagct tgcttctaca 180  
 cttaaccccc aagaccaaact accaactagc ctgagagggt atgaaagaag agccaccagt 240  
 ccctctaaga gagcccccat atccttttagt tccgtcaaag aagaataagg agcactactt 300  
 caagtgtata ttgaagatat ccaaagtgtt ggagataacc atgccatttg aggaagccgt 360  
 acagcagatg ctgctctaca ccatattcat 390

<210> 29314  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<400> 29314

agacaaggat gacaaagctt aagataatca agaacactca gtgaatcaga taattcagaa 60  
 gtcagataga atcagagaat tccgactcag aaaaagtctt agtcagaatc agatcagggt 120  
 aggactcaga tcagagagac tcatcagaaa gtttaaaagt tttcaaactt tgatgcacat 180  
 gattttgaca aacttttaca agagttctct cttagtatcg ataccaattg tgtatcatac 240  
 agagcaaatg ttgaaagt tcaatgatta cacgtcatta ttcaaagtga tcgatcatgt 300  
 ttgta 305

<210> 29315  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29315

ggcggcgctt gggcgtgtga atcgatcact ggcanacgga ancaaaaact cagcttagtc 60  
 tgaagatgaa cgatcctatc actgattgat tatggatata tgttgctaga gctttagaag 120  
 agataacgtg gctcgcactt agtcactat atgaggacaa tgatcactat acattattcg 180  
 atcatgatcc aattcccttg agcaaaagt ggttgccaag catactccta attattttac 240  
 tactcccgga ggaagttgag atcatcgacc ctgcttataa tgtatctaaa ttctcatcga 300  
 ctgcacagtg gtatggactt catctgccgc gagtgggaaa tccttgggtct ttgaggctat 360  
 gacacgtcaa caatgatattg acagctctat tcacacagac cgatactgga ccactacaag 420  
 tgtcggcc 428

<210> 29316  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29316

agcttctaca tcagtatcct tctattgtgc tggaactact tcacatggac ttgatggggc 60  
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttgttgat gatgatttct 120  
ccagatttac ctngtcaac tttatcagag agaaatcaga cacctttgaa gtattcaagg 180  
agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatc aggagtgacc 240  
atggcagaga gtttgaaaac agcaagtta ctgaattctg cacatctgaa ggcactctc 300  
atgagttctc tacagccatt acaccacaac aaaatggcat agttgaaagg aaaaacagga 360  
ctttgcaaga agctgctang gtcattgctc at 392

<210> 29317  
<211> 460  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29317

agaggatgct tcaatggagg aaaagaaaga gggagagaaa gatagatggn ggattacgtt 60  
attgcaggaa gaaaaaggga gagaacttga actctgagtt gtgtctcaca agactctcat 120  
tcatcaaagt tacaacaagt gttacacatg cttctattta tagactacgt agcttacttg 180  
agaagctctc ttgagaaaaa ttccttgaga agcttctttg agaatatttc cttgagaaga 240  
tagagcttag ctacacacac ccatctaaca actaagctca cctccttgag aagcttcctt 300  
gagaagctag agcttagcta cacacacccc tctaataact aagctcacct ccttgagaag 360  
ggaagctaga gcttagctac acaccctat aatatctaag ctcaccccca tgacaaaata 420  
catgataata caaacaaggt cctactaca aagactactc 460

<210> 29318  
<211> 364  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29318

agctttgtca ctggtattca tgtttcattt aggctttta agtatatgca ttttgattta 60  
tggggaccat ctagagtga aactcatggt ggaagctcat actttctcac catcatagat 120  
gattttctca gaagagtatg gccgtatgtc ttgaaaatac aatcagaatc tttttccaaa 180

ttcagagagt ggcatactct tattgaaaat caacttggtta caaaattaaa agttntaagg 240  
 attgacaatg gcctggagtt ngtttcagag caattcaatg agttntgcag gaaagtatgt 300  
 atcataaggc acaaaacagt ccctcacaca ccacagcaga atggattagc ataaagaatg 360  
 aata 364

<210> 29319  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29319

ctcaagtaca ataaagaagc ctanatggac tngaaggctt tgccaaccca cttgaagtgt 60  
 gtgttcttga aagagaacaa tgcaaaacct gtggtgattt gcaatgattt atcttctaata 120  
 gaagagtcta ggtgggtcga agtgctcaaa aagcacaagg cagtcattgg gtggcacatt 180  
 ttggacctca agggaattag cttttcttat tgcattgcata aaattatgat ggaagctgac 240  
 tataagtcgg tgagacaacc acaagaagg cataatcctt cgatgaaaaa agaggtgcac 300  
 aaggaagtcc ttaaactcct agaagtaggg cttacctatc ctatcttaga cagtgccttg 360  
 gtgagttcag tgcaagtggg tccaagaag ggtgggatga cnttggtgag aaatgagaaa 420  
 aatgacctca ttccaatccg aactgtcatg ggatggagaa tgtgcataga atatcgg 477

<210> 29320  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 29320

agcttgtgca ttcaatatcc tgatgatggg gttccatatt ttctcaagac tggactaata 60  
 catttgcagc ccaagtttca tggctcttga ggtgaagatc cttataagca tcttaaggag 120  
 ttccatattg tttgtttcac catgaagccc cctgatattc aagaagatca tatctttcta 180  
 aaggcttttc ctcatctctt ggaaggagtg gcaaaagatt ggctatacta ccttgctccc 240  
 aggtctatct tcagttggga tgaccttaag aggggtgttct tggagaaatt cttccctgca 300  
 tataggacca ctgccatcag aaaagacatt tcaggcatca ggcaacttgg tggagaaaga 360

ttgtatgagt attgggaaag attcaagaaa ttgtgtgcaa gct 403

<210> 29321  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 29321

agctttcccc tattgtttgc ctccggactt cactccccgt gccaccccg aagatttaag 60  
ccaagcccct actttcgagg ggcaactccc accttatgac gactatcccg ggcaagacga 120  
tgaggaagga gatacccatc ttggccccct gctccacctc aaagatccgt ccccccata 180  
actaccccaa ccgaacatag tccgctatat cccggcttca cccacacccg taaaagaatc 240  
tgttcccttc gcggaagata agggaaagat tgaggcgctt gaagagaggt taagagcagt 300  
cgagggcctt ggcaattacc cattctcgga tttagcggat ttatgtctcg tgcccaacat 360  
cgatcatcct cccaagttca aagtaccaga ctttgataag tacaaa 406

<210> 29322  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29322

tgtccacaaa aatagggttt tgaaagttaa tcatttcagt ttcttttcaa gtaaaatgta 60  
tcatttntaa ggtctaactc cttaagatga tcaccttca agtaaaaaag aataacttga 120  
ttcacgcatg tgaaagaact acgtaggctt gatttcttct ccaaaggagg gtacgtagga 180  
gcaaaagccc cgcttttgtc gacctcaaaa aattaaaga aataaagtta ggtaacacaa 240  
tttccacaat tctaaaaaat aggctgttgt cctttgagac aaacgtgaga ggtgctaata 300  
ccttcctcaa gcgtanatac aactcacgaa ccatagaatt tcattntgac cggtttcctt 360  
cggttttccc gacgttttcc acanataaac gttggtggcg actccgcgca tctttcctcc 420  
tttgganaca caccgtgag cctcg 445

<210> 29323  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29323

agcttgcttt ntgctattga agaaaataaa tttaaataatg caatgataaa ataataaaaa 60  
caaattcagc aaaatcatgt ttggctgcaa aaagtaaaaa caaaaagaag tttaatccac 120  
atgtgttgaa gcaaaggaac tacataagat ttataaaaga tattcgcata ttcaagtgtc 180  
gtttgtgata tttctacaca cagatatataa ggaacaatta caaatatttg ttatgttcca 240  
tgcttcaata tttgattaga tacataatag tatcaatcgg tagagtttaa gcttgaacta 300  
ccctcacaat acaatttcaa agaaatggaa taagagaaaa aaaaaacata gaacaaaata 360  
caacgtctaa atgtaaggaa atggagaaac tacgataaaa a 401

<210> 29324  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29324

ctgctgattt agttttcgcc gatgaaagga tcgaagtggg tctattaaga cgcaaactctg 60  
atcatcatgc tttgataaat aaaaaaaaaac tagggcaaat gaagatggtg agaataaggg 120  
agaaacccat gttgtgactg ccattcctat acagccaagt ttcccaccaa cccaacaatg 180  
tcattactca gccaataaca aaccttctcc ttaccaccca ccagttatc cataaaggcc 240  
atccctaaat caaccacaaa gcctgtctac cgcacttcca atgacgaaca ccacctttag 300  
caciaaccaa aacaccaacc aagaaatgaa ttttgcagcg aanaagcctg tagaattcac 360  
cgcaattccg gtgtcctatg ctgacttgct cccatatcta cttgataatt caatggtagc 420  
cataacccca gccaaaggttc atcaacctcc atttctctga gaata 465

<210> 29325  
<211> 392  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29325

cttttatatg agctagaaga gccttgaggt aacatgcgca acaaacatga gtgccatctg 60



tattgaaagc tgaatgatgg ggcgcatact ttctcacgcc attacataat gtatcatgca 120  
 tgatcatgtc ggatgtagaa aaaagatact gaagtcagat aactacttct aatggaggca 180  
 cactctatat tgaatctaaa ctagctcact ataatcaatt acacggattg acataggccg 240  
 gtagagaggt gcctagcata acattgatcg atgacagact gtgagaatct gattgctcat 300  
 acatttcctg acacacgatt gataatgcat gactctctgc ttgaatcgga caccatgtga 360  
 tagagtggag tgcattgctgc cttangcagg an 392

<210> 29326  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29326

tcagctaccg attaatacat tgagtggctt atctaacctt gttctcttag cggaccaa 60  
 cagcctcaga tgcaaggggtt ggggtgtaag tgcttgagac tcgtggctta gcgtatgaac 120  
 aaagatgcat ttagtgcgag gcttgcaact agcgaaagga ctatttttca gaaaaaagtt 180  
 ttctaagtta ttttttagtt ctttttccaa gaaattgaaa cccttatgtt aaacattcaa 240  
 agattggctg atatactcct atgtacagat tatatagcaa gttccaaatg attaaatgca 300  
 tgaaaatcaa agataccgga aattaaaact gggttgcctn ccaggaagca cttctttaac 360  
 gtcattagct tgacactttt acctcactgg gtgatcttat gttttgggtc atactttcag 420  
 aacctcttga cctccttnca ttacct 446

<210> 29327  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29327

agctttatat gttttctgtn gagcacttag agtttagtat tatgatcaaa tccctattca 60  
 tggactacca aagatcatgg agaagcctaa ttgataatgg caagatggga attatggtgg 120  
 agattgttat agacggatgg agtgctacta caataagcat ataatgtgta aggcgattct 180  
 gggaggggtct gaattagggc agagcatcat tacttctttg attttatctc tgttggtcca 240

ttactctatg ttattcatct agtttctgtt actgtatata tagagcacta ctctatcatt 300  
 caccnccag aacataacga ctactctatc attgccctgc tattccaatg tgaatacttc 360  
 tatcaggatc ta 372

<210> 29328  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29328

taaggcacct gaatcgtcca aagtaaaagt caccttatgt gagattatgt tntataaatt 60  
 ataatttata acttatctta tgatttaaca tgctaaaaca tttatactat atatacgcac 120  
 ggaactatat atctctaaca atttaataata tgtgcagtta aaaaaattaa tatatatgtt 180  
 aaaataattc catgaatcga actaatctaa atctttgata tattaggaac taatcatttt 240  
 aggtctcttc aattttcttc ttattttttc actactacaa aatatagact taacatcgca 300  
 tgattaacat cggtttttca aaaaatcgat gttaaaaaaa gcacagtaac atttttgtaa 360  
 ataagttgag ttggttaaca ttggttnttt aaaaaccgat gtttaaca 407

<210> 29329  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 29329

agctttatga ggacagtgca atgcagcagg tgtttttgat gaacaatctt tattacctag 60  
 tgcggaagt gaaggactcg gacctaggga aggtcttggg ggataattgg attacgaaac 120  
 gccgtggtca gatacgccag tatgctacag ggtatctcag agcctcttgg agcagggcct 180  
 tatcttgttt gaaggatgaa gggattggag ggagctccaa taatgcatca aagatggctt 240  
 tgaaggagag gttcaagagt ttcaatgctt gttttgaaga aatttacagg gttcagacag 300  
 cttggaaggt accggatgac cagcttcggg aggagctgcg gatattctata tcagaaaagg 360  
 tgattcctgc ataccgctcg tttgtgggaa gattt 395

<210> 29330  
 <211> 446

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29330  
  
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 aagaagattc gccattgtga aggacatata ttgtacacat gtgaaaattg agtaggtcat 120  
 cttatcgtct atgtagagag catattagct acatttggtt ggctgcacat ctttaacaaa 180  
 agtttcatgt tcatgctagt ttgctacttg gacctttttt agggctcttag taaatgtaag 240  
 gagtatgctt agtgtggcta gcctgaattc gacatgacaa atcggaggat atgactctac 300  
 taaaggtgcc aaatttatct atttttatct tctctggctn ttgggttggt tgagtgggtc 360  
 tcatgattgc gaagtaagta tctatatctc tccctatgt attgaaccaa gtaaaccctc 420  
 acaatactgt gcgagcgtca ataagt 446

<210> 29331  
 <211> 285  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29331  
  
 agctttctac ttgatcagga gaaanncnng nnngccaaac ctggaaaact tgagctcagc 60  
 accacaccat acgcggcacc cncgcgcaaa aaagaaccac ccaggactaa ccgaccgaat 120  
 actatatgtg cctctcttct cctttctctc aaagaacgaa cgactaccgc cctgaattct 180  
 ctcgagtcac cttctccct tgctaagaat tcaaaacgac atagcctgag aattctgttg 240  
 attcctgcat tccctaatac aaaagtgtca aaagactaac tgcct 285

<210> 29332  
 <211> 451  
 <212> DNA  
 <213> Glycine max  
  
 <400> 29332  
  
 actaagctta tcatcgttgc ttccacattg aaacggttgt gctggcctat gtttttacta 60  
 tagtagacgt acatgtgtga tattataaag atggaaagcc tacactaccc ttctaaatct 120  
 accccaaagt aactttttta taaaaatatt cattctttat tgtaatatta ttttttaatt 180

aatagtatta caaatagttg cattgtttca ttgaacatga tatacgctct ggacgaggat 240  
 aaatgcaatg catatatgaa tttaacctac acttattttt aagttgtcaa tcaaaaatcc 300  
 ctctttatat agctttttaga atatttatta tttcccattha aaaatatcta ttattaaaat 360  
 taaaaaacta atatctatca taatttatga tttaataaca ataataaaat atactcgcaa 420  
 tatatataca tactattttc tattactctt t 451

<210> 29333  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 29333

agcttttcag ctatttggtt actctcccta agagaatgga gccaaacaaa gcttccttgt 60  
 tgttcctcaa aagccttgaa atttcaaac atgctttaag acaggtgaaa tgaagggcag 120  
 ccatgattca gaagtgaat agccacaaag gaatcagatt ccaacatgaa ttgcttgaat 180  
 cttctactcc gtgcaatttc aattccaagc atgatagcct cgagttctgc agttacaact 240  
 aaacaatagc atacatcaat aacaaaagag aagttcgctt tgccattata atccttgaga 300  
 actccaccaa caatggcctt cttcgtgtct ctattgattg aaccattaat attgagtttg 360  
 aactagccat ttgaaggctt gctccaacta atgctttt 398

<210> 29334  
 <211> 163  
 <212> DNA  
 <213> Glycine max

<400> 29334

ttataagagc gggctctgtga gacaaaggtc aagtggctgc aatatgcat tatgatgttc 60  
 cgagtacatt ggatctggta cgaccatgcc ctctgattt ccagctggga aataggcgag 120  
 tggaggaacg ctacgcaacg agcataatgt aaacctgtac ggt 163

<210> 29335  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 29335

taagctttat gatgttatta aaggctttgc acctacctct ggcagtaaca gtgacaaaga 60  
tgatcataag tacgtttaca actagacatc aaattttact tgagattnta tagtttctga 120  
tacttggatc acttgagcat aacagtgggg agcaattgat ggaagatgaa tctcanattg 180  
ctccaaggag aaggaagaaa cttgttcttg atggtgattc ggaaagacaa atcacagatc 240  
tccatgagaa gtatgtttga ccagatcana ctttngtctg aactntggag catgatttan 300  
attagagcct tgtcacacag aaattcagtc tttgttcttt tattcttctt acatcatcgg 360  
tacatacatt ct 372

<210> 29336

<211> 474

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29336

cgccgggatg agctgtgatg atcattcana cggcccaaatt ctagctgcta tcggcatcac 60  
cttttggggg tttttttttt ggtagcttcc aattttgggtt aatttggcct tgccccgacc 120  
ctttagaacc ggatattgat gctccgtttt gacgaacaat gtacttaatc cctcactgta 180  
actctattaa cattgatttt gatgacgtgg ttaacgcaga cacatggcgg ccccgtagacc 240  
ttgatgacta atctgagcat atttctctgg aacaaggatc taaattcatt tttactacct 300  
gcgtgctgcg ttcattaggg ccgattttac cctcatatt ggaagagcaa gagcagcttt 360  
tcattactga acattatgca aaccatttta gttcatggc tatgatgttt gacaagaatc 420  
atgcttatac ggtggaactt gtcactttat cacaagaatg tatcaggctt tctn 474

<210> 29337

<211> 391

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29337

agctttctaa agttntctgg ttntctaaac cttgaaaact tgtgctattc atcttttcat 60  
tctcttctcc ctttgccaaa aagaattcgc caaggactaa ccgcctgaat tctttttgtg 120

tctctcttct cctttttcca aaagaacgaa ggactaaccg cctgaattct tttgtgtctc 180  
 ccttctccct tgtcaaagaa ttcaaaaacga catagtctga gaattctttt gattcttccc 240  
 attccctaatt acaaaagtgt tcaaaggact aactgcctga gaattctttt gtatcccat 300  
 tcacaaagta tcaaaggttt aacagcctga gatctttgtc tcaacacatt ggagggtaca 360  
 tcctttgtgg tacaagtaga ggggtacatct a 391

<210> 29338  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<400> 29338

ttgatagtga ggaatcaatg ggtccagata ggttgcata tgacatactc agaacttcaa 60  
 gtttgtgcaa tgaagatatg gcttggcacc actcgtttcc aattgcagat accttgacac 120  
 catctagata caattctgcc agttttgtga ggttttgcaa gagtgtacct atatttggct 180  
 tctcaagttt tagagtatgt tgcgaggtaa atgatgtaga caagtcaaga gtagatagct 240  
 tggtttagatg agcaatctca attggaattt gcccttgaaa ccagcattt gacaagttca 300  
 aatacctcaa attcttttagc aagccaaact ttgaaggaat catcgaagaa tggatgtcat 360  
 tgtgtgccaa attcaaactt tgcaaatatt gtaggttgaa gagacttgaa ttgtccaagc 420  
 cttcactgat aaattcttca ctcaagt 447

<210> 29339  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29339

ggtatgtcca cgcccatccg cgattataga taaaaacaac ttaaccaaac attntgttca 60  
 caaagaacta cgtaggtctg atttccttat cgcaattaag gaatacgtan gagcaaggga 120  
 nataccctcg tcgaccgcaa aaagataaaa aaatatataa aggaataaag acgtaaaagg 180  
 gaacctaaaa attgaagtca tgtttgcaca tttaaagggtt gttgtctcct gtgacggacg 240  
 cgtgggggtgc taataccttc cccgtgcgta aatacaactc ccaaacttt cacttaaagt 300  
 tcgtagatca cgtcttttac ggtttttctg acgttntcct canataaatg ttgggtggcga 360

ctccgcgcgt attcctttct tggaacacac acccgcgagt cacgtgtc 408

<210> 29340  
<211> 463  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29340

tgcctaatta acctgaaatt gagaganaat gattattaaa cacatTTTTat ggaagtacta 60  
agtatttatt acctatactt aatagaaaat acttataaca ctacaaaata accataaatt 120  
ggaagagttt gatacaattt acacaagttt tatacacaaa agttagtcgt attcaccgac 180  
taacaatatt caagagatta gaaaatactt cagcaaaatc aaccacagtc caaaatctgc 240  
aaacggagat taataatttg aaaaaggaag ttaatgaagg aataactacc aaggaacacc 300  
cttcattaga gcgttattcc ccttcagat atccaaggaa ggaataacta ccattaactt 360  
aggaagaaaa attacattct atttttctac taaacctatt tcaagaaata taaatttcat 420  
agaanagaan atcaaccaa ttaatttctt anaagatgaa gtc 463

<210> 29341  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29341

agcttcttga tgttgtttca agattgattc aagttggttt gatgataaca agagatgatg 60  
acaaaaagcc caatagaatg atttcaagaa tgagtcaaca attcaagaat caagagaagt 120  
taattattac aagattgagt caacaattca agaatacaaga gaagtttgat ttcaagattc 180  
aagaaaagat gaattcaagt ttcaagagaa gaaatcaaga agacttcaca aggggaagtat 240  
tgaaaagatt tttcaaaaaa caaacatagc acagttttgt tttttaaaag agtttttctc 300  
anaattttct aagttaccag agtttttact ctctggtaat cgtttaccag tttcctgtaa 360  
tcgattacca gtgacanaag ttgttttcaa aagctttcaa ct 402

<210> 29342  
<211> 457

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29342

gtatcaacca taatcgtgat catttcctc tcagtcgtag gtgggatgac ttgngctgct 60  
aggtctctcc acctttgagc atgttccttg atggactcat gttcccattt gctcatgctc 120  
tgaagttggt tccgatcggg agccatatct gtgttgattt ggtactgtcg caacctaccc 180  
ttcggcggga gggcgacgcg agactcgcgg gatgcttggt ccacgaaagg aatacgtgcg 240  
gagtcgccac caacgtttat ttgaggaaaa cgtcggaaaa accggaaaag acgcgatcta 300  
cgaactttnt agtgaaaggt tcgggagttg tatttacgca cggngaaggt attagcaccc 360  
cacacgcccg tcccaaggga cgacagcctt taatcgaatg tgcaaacatg actnntgatt 420  
ttatgttccc ttntatgttc ttatatacctt tataccc 457

<210> 29343  
<211> 399  
<212> DNA  
<213> Glycine max

<400> 29343

agcttgtctc agcgtttatg cgatacggag accaacaatgc tagctatcat cgccaagtac 60  
caagaagagt taggtctagc cacggccac gagcatagaa tcgcgatga gtatgctcaa 120  
gtgtatgcgg aaaaagaggc tagaggaagg gtgatcgact ctttacacca agaggcaacc 180  
atgtggatgg atcggtttgc tcttactttg aacgggagtc aagaacttcc ccgattgtta 240  
gccaaggcca aggcgatggc agacacctac tccgcccccg aagagattca tgggcttctc 300  
ggctattgtc agcatatgat agacttaatg gccacataa ttagaaatcg ttaggaaact 360  
tgtatggtct ctcagacctt gactagatac gacttcctt 399

<210> 29344  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29344

tgtgcanatc anatacctcc tacatttcat ctctagcatg cattntcttt ctttactcac 60



tcttcacggt	tggttnttta	gggaaaaaca	ccataactaa	acgcgccgca	agggatccct	120
atcgcaccag	atccaaatct	agaatgatgg	gtgatcaaga	ggagacgcag	gaacagatga	180
aagccgacat	gtcggctctg	aaagaacaaa	tggcctccat	gatggaggcc	atgttaagta	240
tgaagcagct	catagagaag	aacgcggcca	cgcgccccac	tgccagttcg	gctgccgaag	300
cagacccgac	tctcttgaa	ctacgcacca	tctcctctca	nacatagtag	gacggngaag	360
ggacacactg	gggcacgatg	gcagtctctca	cctgggatac	aaccgagcgg	cttaccctta	420
tggatngccg	cccaactatt	caccacccgt	cttgcaagaa	ga		462

ttacgaatcg gcaagcgatg aagcgaagaa gaaggagaaa acacgaagac aagaaagaga 300  
naattttcag acacagaaga aatggaaaat ggtagttctc agatttagat ttggactcta 360  
cacactntct ctgtatatat atagacgcgg ttnttatgca tgaattatnt gatcaactct 420  
gagttcgaga aagctaaggg gagccacagg atcatatcaa gtga 464

<210> 29347  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 29347

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cactgttatt tgagacaatg attgatttat tcaggagtct ttcttttaaat cgattaccaa 120  
gtggattaat cgattacttc tctctcattt agttgttcaa aagtgaacaa gaacacttta 180  
attgattact tagagcatct aatttacttt gtagatttaa tcgattatag gtggttataa 240  
atgttttctc tataaataac catcttgtgt tccttccaaa acatatcaaa agaatactca 300  
atatcttgaa aataacccat tagcctctta atgagaaaga tctcaagttg tcattagtga 360  
aaagagaaaa aaagaaaaaa gctgtataat tactcataac ttc 403

<210> 29348  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29348

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tgctatgcgc gaggaagaat ccacaagaag atgagctnta caggttcgct aagcgccctg 120  
cttcagttca tccgctaagc gagaaaggcg cgctaagaca aaaatcacta acgtgggcta 180  
agcgggccat aagtgcgcta agcacacgaa cacgaacaag gctacctatt taagcctaaa 240  
ataagatttt gtgaacaaaag tttggactgc gattcagagc tttgcatatc tagggtttct 300  
ggagagagaa aggtccaagt tccagagagt tttgaaagat tctgctgtgt gaagatttgc 360  
agagaccaga gcttgaagca agagccngt taagagctct agatgagtct gtgagtgatt 420

gtgagatcct

430

<210> 29349  
<211> 249  
<212> DNA  
<213> Glycine max

<400> 29349

ctttttcaac attgatgcaa ggggcatga tgataacaat agaggaagac aaaaagccct 60  
actgaatgat ttcctgattg gggcaacagt ggaggacca gcattggtca tatattgcgc 120  
caccgcttca acatctcaag cctcctgaga agttagattc cgggattgaa gcatagatga 180  
ggcgggggttc aagagaagaa atcattagga cttctctggg gaagtatcga tgcgatttat 240  
cacaaaacc 249

<210> 29350  
<211> 336  
<212> DNA  
<213> Glycine max

<400> 29350

gagaatgata acgtatgcat acatgatctt gctgatgtca ctacaagaat caccacaggc 60  
tggttgagct tgatgaataa tacactattg ttactaccaa caaggactcg attccaacga 120  
cttcaagatc caccatatct cacaatgctt ggtttcaagc catcacaggc ccatgtctgc 180  
catcaccgat gagttattag tgaagtgcg attacgcatg aatatgtact caagaacacc 240  
atactttgaa ccgtaagaac tcctatagat attgaaggat cgcattctcg accataaact 300  
taggaagaga aatcacatac tctaattctg ctatcc 336

<210> 29351  
<211> 237  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29351

atcaagaacc gatgctncca ctacagagct cactctccag actagttcca ggcactaagg 60  
attgatatca caatgagagt tgctacttgc attgatatg acccatccga gtctattatt 120  
caataactaa ataccatgtg agagcgacat accttacact gtttaattggc gttacaaccg 180

aagacatcat tatgcttttc caagcttata gcaggccga catcctcaac atcctta 237

<210> 29352  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29352

tgtcacatgg aataatgtac atacaattca naattntgta aatctcttaa atcatcattg 60  
taattaattt caatatcaat taagctttga taaagcacc aaacacaaaa cttactatag 120  
tctgagttac aaatttttag ggtgttacat acagcctaga aaggtaaact tttgagaagg 180  
ccaggtaagt tgcccttgtc aattttgtgg tgggtgtatat tcccacttac acaatgcaat 240  
tgatgggtgc cagcaciaat ttgtgataag taggatatgt tgggcattag tttatttgga 300  
gtggaaatct agaggggagc ctccatctgg ttaagtggga ttctattatt cagaagaaga 360  
ggcttagggg ttcgagtagc tagacttcat aatattgctt tgggttgaaa gcttatttgg 420  
gatattctcc atagccctaa catgc 445

<210> 29353  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29353

agctttcatg atttacattc tccattntc tcagacaaat tcttcttgac atcatcaaaa 60  
cctgcatgat ttatagcctt ttgcctataa ataggcatcc aaggggtgtt ttaaagggtc 120  
ccaagggta gaagtggaga gaattgagag aagagataaa gaagaagaaa aaagaagagg 180  
aaacgaagcc gatgcgtac cgaatcgga ccgcaatcat tccctacgtc gtttcttggt 240  
cgggtgttctt tgcaccagtc ggtagttct attttttaggt attgaatgtg atctatgtac 300  
ccttaggggt ccccttggtt attatgtaca cattcatctt ttccatctat catcgacaat 360  
ctctttttct aatcttaacc aatcactagc tgcagtaaat tg 402

<210> 29354  
<211> 442

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29354

tccccgcctt caaggtcgca tctctattcc tagacttggg ttgcttacac cacagcttcc 60  
ctcgaagcat catttctgat agagatcctg tgttcttaag ctcttctag cgagagcttt 120  
tttgactcag tggcaccat ttacgtatga gcacgatgta tcaccacag accaacggcc 180  
agatcgaagt gatggaccat gtgttagaac aatacctacg ttcatttgtt cattcccaac 240  
cggcaagttg gttccgttac ctagccttag cagaatagtc gtataatact tccctttatt 300  
ccagttcagg ctntactccg ttcgaggcaa tatacggcaa gccaccacca gtgttgcccc 360  
attatcttcc tggaatgacc aacaacgagg cggttgaatc actggtaaag ctctgataga 420  
agatccatgc aaagcttcaa tg 442

<210> 29355  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29355

agctttatca aatattagag agggatctcc aagtaattcc ctcatatct ctcatgttct 60  
tccctctttt tccctttcct ctcttcttct tctcctacgt tcttcttcta tttttatttt 120  
ttttaagttc gtagcttcgt cgtttgtctc ggtggtgaga tctatggtcg tcaatgagat 180  
ctgtacaagt tgatatcgtc attttttctt ggtgctttat tttgtttcat gatttttttc 240  
gcattccatc atccttttct tctttctctt ccttcttttt ccattttccg atgaagcctc 300  
gtgcggtgct gccatggttt aattnttatg ttgtanataa gtcaacatac tcatacaaaa 360  
taattcgata taacatgaaa taatac 386

<210> 29356  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29356

actaagcttg gcaatgccct accaggcctn ttatTTTTat tccctttatg gggccttttg 60  
gaactaatc tgacatggtg ttctTTTTta cgttatttgc atgcattttt catgcaaacc 120  
gccattgccataaacgattt ggctgcagca cgacatgtgt ctgggcaaac cgccaacact 180  
gtgggcgact tcatgtggaa gggcatcttg ccacttgac tggcgagtgc atcaactgctg 240  
ctgaaaccgc aggtttgact ggcgagtttc ggaaatggca ggcctagggg gcaggacgtg 300  
cangtgcaag ttgctTTTTg acttcttggg cttaagggga gttgccactt gctctggcaa 360  
cttaagtaaa gggaaatcgc ctatacgttt ggc 393

<210> 29357  
<211> 385  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29357

agctttgtgt aatcgattac actgattttg taatcgatta ccagtgatca tttctgaaca 60  
aatcaaaaga tgtaactctt caaatagttt ttgacttttt caaattgggt ttaagttttt 120  
ctaaaagtca taactcttct aatgattctc ttgatcaggc gtgaagagtc tataaaagca 180  
agactttggt ttgcatttca catctatcca atcaatcaat ctatacatca atcttttcca 240  
atattattctt tacacaagca agttttccac attgctttct gagtctctnt gaacttcttc 300  
ttcttcttcc ttttgccaaa agctttccaa agttttctgg ttttcgaaac cttgaaaact 360  
tgtgttatc atcctttnta ttctc 385

<210> 29358  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29358

tgcacaanaa tgattngatc aaccaagatc ttagatctat atgtttccaa gcttcacagg 60  
atgacaaaaa gaaatttgga accaagactg agagttttgc acgaaaatgg taaggaaaca 120  
agaagagaat gaagattaag agtctcttat caaagctttg agggaagaag cccaaggac 180  
aattgtatga agcttggaag aagaagaaga agaagacaat ggactcctct ccctcccttg 240

aagaactcat gaacaacaat ggagaatgaa gggtccaagt ttgatatttt tggaggagtg 300  
aagagataag gctntaaggc ttggtccaaa tgaaacttgg ttaggcttaa tgttgataag 360  
atcaaattga cacaatgaat gaccatctga tagccatggg ggaagtgcta aatgcggcca 420  
tatat 425

<210> 29359  
<211> 483  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29359

cgactccggg ggttgagcgt tganncttga tgcctttgan atcccggcga atcanctcgg 60  
accccgggat cctatacagn cgctttgcng catttttagct ttaataaaac cttccgaagg 120  
gccagcta atctatctgt tcgaaatggc cttcttggct actatcggaa acaccagcgg 180  
tggtgcggtg cctgtgtgtc tccatttcta ttaccgctaa attaataattt aaaaattctc 240  
tgtctaagcc ttaatgggta tattgattat agcctagcta tctccaaca acatgtgcat 300  
tcatatgaat tatttcttta ttcctctgca tattagcgac catgtggcaa gtggaaaact 360  
aataaagatg aacatgtgtt cctatacata cattatagta agggatacct tcatctctct 420  
tcccttctaa aaattagctt cgaccatatt aagatatttg aagaaaaaga taatgaagat 480  
ccn 483

<210> 29360  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29360

ctggcaacat agctatgctg gagagctttg tagcncattt tcttatcacg gtcgggtcca 60  
cttggcaaga aacaattcgt ttgtaaaatc tctcaagcac acaactgact tatgtctcag 120  
ttacaaattt tgatggcgta actcttttct ggtaagaggg atcatatatt cacactccca 180  
cattgacctt ggatatcaag tggttgccgt aagctcagca tacatacctt tatcgttggg 240  
tgccgaggat attgtgtgca tattccgagt ggtggtgact aagaataatg agatggaaag 300

caagatgagc acctgcttta gtaatggtgc atttactatg caatcactat gccagggtgac 360  
gagtatgtca gacaaataat ttcgattggc tgtaagctaa ctgggatatc atgggtcacccg 420  
cacgtgcaca tgcaact 437

<210> 29361  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29361

tcaagcttta tcaaaacaat tatctaataca ttccaatcca ctcaaatacat acaattgctc 60  
attcaaatca ttctcaaaca ctcatctcat acaaaacaat ccactgcata tcattttcaa 120  
ccaattcact gttcaaaca gctttttgta caagcaaaca actcanagta ctgaaattta 180  
aataacttgg aatttaaaga actgaaacat aaaaactaaa atttaaataga ttgaacataa 240  
atcataaaat aactgaaaat aaactaaaat gttcaaaata gaaggggtca ggaggagtga 300  
gctcatcttc cccctttact gctactgctg gctcctctgg ttcaagctcc tgggctgcag 360  
aagccccacc cct 373

<210> 29362  
<211> 363  
<212> DNA  
<213> Glycine max

<400> 29362

tatccggggc tccatcagca gggcttttat atagaaatat ttcattgcta cgcaggcgca 60  
cggtcaggca ctgcagaagc acgatgagga ctaacagtag ccagctgtag gtgcactatc 120  
tgccccctta caagagacag tgggcctggg gttcatcttc gctcacctgt ggagggttaga 180  
gcttcaaata cacaggtaca tgcagcatgt gactacccaa caggcagcta atcacagggt 240  
catgtgaagc taaacacgac cttctatcgg tacactatgc actagcagag tcagaacacc 300  
agtcctttcc tgtggactac ccacgagcaa ttcggagcca catttgctg gctgaacat 360  
gcg 363

<210> 29363  
<211> 386



<212> DNA  
 <213> Glycine max  
 <400> 29363  
 agctttatgc catgctacaa tggttctccc tgacatctcc gcggcagctc cgaggatttc 60  
 ttggtctaata tggattctat cgacaatttg tccagaatta tgcccacatc gcagagccac 120  
 tcaactgcct attgcgaaaa gaacaatttg agtgggtctcc cgaggcaciaa ttagccttcg 180  
 acgatttgaa aatagccatg acaaccactc ctgtcctctc cctcccagac ttcacgattc 240  
 cctttgtagt ggaaaccgat gcctcagga caggcatggg tgtcattttg atgcagcgca 300  
 gccatccaat tgcctacttc agtaagcaat tctatcccaa attgcttcgt tcttctacat 360  
 acatctgcga gttgcacgcc ataacc 386

<210> 29364  
 <211> 445  
 <212> DNA  
 <213> Glycine max  
 <400> 29364  
 gagtaacgca accggttcgg ttactcgctt cgctccaacg cgattgtata gaaacggcat 60  
 acgatcaacg aggtcgtagg cactccggct ccgatgcct ctacagagatc gcagttcgtg 120  
 atcgctaacg ttcagatccg cacgcttttg cacttctacg tgcttttctt tcggcgggctt 180  
 tggcttctct gtctgcgcaa tcggtgggtt ctcaacctcc ggcgggcgga ccgccgcctt 240  
 cggagcctcc tcttttggtt tttcttcttc ttttgatgct tctttagggt tattctcatc 300  
 ttctttcttt tctcgtctt gcgtttctc tgcttatct tctttcttct ctcttcttg 360  
 cgaattctcc ggcagcttct cctccgatgc cgggtggtgct gactctgctc tctctctcc 420  
 gggcgtctct ggtctcgggtg gatcc 445

<210> 29365  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
 <400> 29365  
 agcttttatc aaactgttcc tagtttcatc atataagaag aacttatacc ctcttctcaa 60  
 acaagagatt caacagaatc atagagaact agcattttta acttcaggag cacctataag 120

taagtgaat cttcttggtc tcttggcatt gctttattgt ttcttatagc agtaatgagg 180  
agggtaatat agcaccatgg ctaaagtagt aaatgatatt taaatgcatg ttcggtaggt 240  
tctgagaacc aatggaccac tagctggtgg gagcaattca tgggtcttct taagaggggt 300  
ttaatggaaa cgaggcatga atcttattcg agattaatga ttctccaagt cttgtctgtc 360  
tcaattctct caggacttct gcggtggcat tctgatccct cacatata 408

<210> 29366  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29366

tatgcctctc tctctctctc tctctctctc actngagccc tacttatgca tataattgtc 60  
ctattctcct acctcatatt ctacttgag ggtcacagtc ctctattttg ccagtccccc 120  
cttcctatca atgggtatctt tctaaaccga cgtgtgaagt ctgagacccc atttcatcca 180  
catctaccct gacatgtcac ggatctggat tttggcaaga acatgatttg tgccaatatt 240  
taatgggctt aacttcttta actagaatga gcaagtccaa tttcaccttg ctgtatggat 300  
cttaatcttg ctatattgga agaaaaacct gcagctatta ctgattctaa gtgcaatgat 360  
gagaaagccc attatagagc ttgtgaaaga tttaacagac tcaacctaat gcttatgaga 420  
atgac 425

<210> 29367  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29367

agcttttatt ntgttatgat ttttatgttg ttaggctagt tattagaatg tatgttggtta 60  
ggggtttact ttcgcacgta atgtaggtta ttttgctgtg attntattag gttttgagac 120  
ctaataaggg cctatgggtg ggggctgaaa accccaagtt ttttggaataa tttgatatgc 180  
ttgctaagcg cgcttggtgca ctaagcgagt tcatcaattt tggtgaattt ctggggttcc 240  
agatgaactc gttaagccgg ccttggtcca ctaagcgtgt tcatcatttt tgattgaatt 300

tatgaatggt tgcataaact cgctaagcca cttcactttg ggcttagcga gagtttaaat 360  
ttccagtttt tattttaact gtcctatgaa ctcgcttagc c 401

<210> 29368  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29368

ntgaacaata tacttggcct tcattttaact gtctctgggc ttggctgnca cgctcattaa 60  
agtactttcg acacctactg tacgttgatt tgaccaaggt tgttatggga atgttgcgac 120  
aatccttcaa aaccttattg atacattctg agaggttggt tgtcatgtgg ccatatcgac 180  
gtccttctct atcataagtc atcgccatt ntccctttga aatgcgatca atccatgttg 240  
ctatggctgg acttagttca cgaaattttt ctaaattttg ataaaaaaaa tgtgcttgca 300  
aggagtgtag gatgcataaa attagttatc aataaccaat ttaagtatat aggggaagtta 360  
aataaacgtg accatcaa atganatctt acccaacttc ttcaacattt ctt 413

<210> 29369  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29369

agctttctga atgattaatc gtgaaacat ttcaaaactt caaacaagat tcacccatat 60  
tgtgaatcac ttgcttgatc ttggaaaacc gtttgaagat gatgagctaa acatcaagat 120  
tctcaattgt cttacaagaa ctttggaaacc aaagatcaca gcgaccaagg aatccaagga 180  
cttaacatca atgtcgatgg aagatctctt cggaaaattg cttgtgtatg aacatggggt 240  
gattcaacaa tctcatgtag aagaaacata aaataaaaga aaaggaattg cactcaaggt 300  
tagttcttca aaggaagatt gcaaagaaag ctctagtgat gacgaagatg tagagaattt 360  
aagcttgatg gtaaagaagt ttaggaaatt tctcanacaa t 401

<210> 29370  
<211> 406

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29370

tcgatgatgaa acaataatga ttcanagatg ttttgatgat aacatttgtg atgacattaa 60  
gctcanaggt caatcaaaga atgagttcaa gatgttcaag atagaatcaa gaaagaatga 120  
gttcaagatg ttcaagatag aatcaggaac acttcaagat tcaaggatca accttccaag 180  
aatcaagatc aagattcaag actcaagatt caagaatcaa gagaagactt aatcaagatt 240  
caagattcaa gaatcaagag aagacttaat caagataagt atgaaaaggt tttttcaaaa 300  
gctgagtagc acatggattt ttctcacaac atgtttacca atgagttttt actctctggt 360  
aatcgattac cagattgttg taatcgatta ccagtagcaa aatgaa 406

<210> 29371  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29371

agctttcaac aaatgtcttc acaaataatc atcacacagc aganacctag caagactact 60  
catcatatct ccccaaaacc ccataccac gaaatttaag agagaaagaa gtccatccaa 120  
acctgaaatt tcgaaatccc actcgtagcc acgcacttca cgactccaaa aatgctctcc 180  
tttcgcgatt tggagcagaa atgatggcca aagggttgag ctttggtggg gtttcaatgg 240  
agaatggagg agaaggaaaa agcaacgtga ggaagaggga gagagagagc tgttctgaaa 300  
ttgggctgag tgaagagaga gaggggtgct ttttgggttt taataaaagg gttttctctn 360  
tttctattat tntatttaag caatgccaca t 391

<210> 29372  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29372

taaghtaacc ttttggctct ccacactcat ttctaagtta tcatttccca tgtccaaaac 60

acattttgcg gtaagcatga atggtcggcc caatatcaag ggaatatcag aatcctcgtc 120  
tatgtccatt atcacaaaat ccatcggaag ggtgaattgg cgaaccttaa ccaagacatc 180  
ttcaactaca ccatatggtc atgtaatgga ggggtctact agttgaagag tcattatagt 240  
gggagctatc ctcggttct caattctccg acacatagaa agaggcataa aattgatgct 300  
cgccaccaga tcaatgagag ctttaccac tgacacagtc ccaataaagc atgggatgat 360  
cacacttct gngtctttga acttctgtgg tagaattcta tggatcacia aactacaatt 420  
tcctttcacc ataatgctct cattg 445

<210> 29373  
<211> 371  
<212> DNA  
<213> Glycine max

<400> 29373

tttgaagctt ttttcaagac ttagaaatca aagatattcg agatggatga tcaagacagg 60  
ctctagagtc ttaagaagag tatatttaat aggaagagaa ttccaattga agtagcataa 120  
gctttggcca ataaatttaa gttaaaaagg ctttttcaag aaatttactc tttggtaatc 180  
gattaccaa ggatgtaatc gattaccagt ggccaaaact gatttacaac agctattaaa 240  
atttgaattc aaaatttgca ctgtgtaatc gattacacat atatggtaat cgattaccag 300  
cagttattaa gacgtttaat tcataatttt aagcttgga tcgattacac aaatactgga 360  
atcgatacca g 371

<210> 29374  
<211> 448  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29374

tgcccagaga aggagtccat ggaggacatg ctttcttct caaattactg gaaagcggnt 60  
tctaagact cctctgcggc ttccacataa ggcatagagg atgggaagct caccaagatg 120  
tcttctcgc ctgatacgat gaccagatgc ccttacta tgaatctcaa cttttggcgg 180  
agtgttgagg gaacaactcc taatgagtgg atccacgggc gccccaacag acagctgtag 240  
ggaggggttaa tatccattat ttggaaagta acttgacagg tgtgagggcc tatctgtact 300

gcgagatcga tctctcccct aacctctcgg cgggtgccgt cgaaggcacg aaccaaccgtt 360  
 gaactcggct ttaagtggga ggcattgaat ggtaatttct ccaaagtgct cttacgcac 420  
 acgtttaaac tggaaccatt atcgatga 448

<210> 29375  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29375

agctttgtnt aatttttata aagagttaaa attaagttca gaagtgagtt atgaacaaag 60  
 ttaatatatta taattaacta attattaaaa ctacatcatt cagaaaatat ttctcaaaaa 120  
 ttataaacta caaaaggtag tttaatcagt gtcactatca ttccaattct tttgtcttct 180  
 aattacaatt tctcatacta tgtcaaaaacg tctataataa aaggagactt catctccatg 240  
 atcaaagtca ctttctgcaa gaaaatcata ccatgggtga gcaatggctt taggagcaat 300  
 tccagggctg agagtctcaa gaggccattg cgatggacgg ctaaategtc ttaatactat 360  
 catgtgatgg ccacaagcat taagaga 387

<210> 29376  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29376

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 aagctcacct ccttgagatg agaagctaga acttagctac acaccctat aatagctaag 120  
 ctcaaccnca tgacaaaaaa catgaaaata caaaaaaaag gtccttacta caaagactac 180  
 tcaaaatgcc ccgaaatata aggctaaaac cctatactac tagaatggcc aaaatacaag 240  
 gcccaaacga aggaaaaacc tattctaata tttaaaaga taagcaggct catacttagc 300  
 ccatgggatc gaaatctacc ctgaggcaca tgagaacctt agggcctacc cttggatctc 360  
 tagcccaata tacttggagt cttctaccca attccttgc gggataggat tgcacacaa 420  
 cacattcatc ataccaccta tcat 444

<210> 29377  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29377

agcttggtccg aacaattgga gcatgacgag tcttcttgaa gaagcaaata tcccgttgga 60  
 aacctaccta aagcgaaatg gccttagtag cttgatatca gagcagcaaa caaattcagc 120  
 ttcaaagtgt caagcacaga caaccaatga tagtgaggga aaacacaatg aggattgtgg 180  
 aaccgctttg gttattcatg agaggggaaag cagtcttgaa gagaacagtg ggcaagacag 240  
 agagcaaaac aattcactct catgaaatct tgccagttat attataattg ttttttcctt 300  
 tgttttaact caaaaatcat ttacaagaa tccttgcata aattataaaa ttataggagg 360  
 ttcattagga tggctatatt nttttttct 389

<210> 29378  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29378

tgtcagaact tgttntaaca naaacaaga aatttcttga tcaacttagt agcctcatal 60  
 ttattttttca ttaaataata ccatgtaaac ctagaactat catcaacaat agtcaaaaag 120  
 taatgttttc catcatgagt agcatgttga tatgggcccc acgtgtctac atgtatgaga 180  
 tcaaatgggg actcaaaata atgggttattt gaaataaaag agagccttct anatatggac 240  
 aggggggcaga tcatgcaatc tttagaacta tgagatgtca aatgcaatga atttttattt 300  
 gcaaaaagtt tcaaaatctt gtcagataca tgtcccaaat gggaatgccca caaagattgt 360  
 tcactaagaa cattacaact tgtaactaca ttattancaa ttgaagaatg tgaattcaca 420  
 a 421

<210> 29379  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 29379

agcttggtta aattatgatg gattaaaata atatagcatt gccaggacta atgatattac 60  
aagacagact gaaaaaatgc ctattgttct gtttcatgat aaatgagcag cagcagctaa 120  
tttataacta gaggagggat caacttacac caagagtaac tcttctagtg aaaattttca 180  
taccaatttg gataaagcaa ttcaactatt atctaagtga aaattttctt ttaataaagt 240  
gtcgttactt ctgtgtccca tgaattgagt taaaggccac ccattcttag cagagtacaa 300  
agaatttctca tacttgaatt agcacaagcg cataatagca ttggatggaa cccttcaatt 360  
ntatttaagc aatgattttt aatccattaa taagca 396

<210> 29380  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29380

tggttaccct ttacctttat atagcttcta acattcttaag gcactgtagc ttcagtcata 60  
tgtagnggaa tgtcatgaac aacagctgag aaaggctgat ggctctgctt catttgagat 120  
acatggaaag catcaagtat tttggctaca gccgtggccg gtaagggaat ttttgaagca 180  
cccgccaaa tcttatctat gagacaatga ttntatagga accatagaat cttgggtggt 240  
tactgtgata tgcatacatg gttgtagttt catatacacc acccaatcat ccacttgaaa 300  
cttctgtat attcgattat tgggtattgt tagcttggtc caacattcta ttntgagctt 360  
ctgtcaaatg aaggtagaac gtgaaggggtg aaaacttgat ccagggtgtt ttacttgtga 420  
agt 423

<210> 29381  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 29381

tcaagctttt attttgctat tgaagaaaat aaattttaat atgcaatgat aaaataatga 60  
aaacaaattc agcaaaatca tgtttggctg caaaaagtaa aaacaaaaag aagtttaatc 120



cacatgtggt gaagcaaagg aactacataa gatttataaa agatattcgc atattcaagt 180  
 gtcgtttgtg atatttctac acacagatat aaaggaacaa ttacaaatat ttgttatgtt 240  
 ccatgcttca atatttgatt agatacataa tagtatcaat cggtagagtt taagcttgaa 300  
 ctaccctcac aatacaattt caaagaaatg gaataagaga aaaacaaaac atagaacaaa 360  
 atacaacgtc taaatgtaag gaaatggaga aacta 395

<210> 29382  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29382

ttgctgattt agtnttcgcc gatgaattga tcgaagtggg tctataaata cgcaaattctg 60  
 atcatcatgc tttgataaat acaaaaaaac tagggcaaatt gaagatggtg agaataacgg 120  
 agaaacccat gttgtgactg ccattcctat acagccaagt ttcccaccaa cccaacaatg 180  
 tcattactca gccataaaca aaccttctcc ttaccaccca ccagttatc cataaaggcc 240  
 atccctaaat caaccacaaa gcctgtctac cgcacttcca atgacgaaca ccacctttag 300  
 cacaaaccag aacaccaacc aagaaatgaa tnttgcagcg aaaaagcctg tagaattcac 360  
 ccgcaattcg gtgtcctatg ctgacttgct cccatatcta cttgataatt caatggtagc 420  
 cataacccca g 431

<210> 29383  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29383

tcaagctttc ttgtgaagct tctatggagg ttggatcttt gagcttcaat gaggtccttc 60  
 aatgctaatt ttccaccatg gagatgcagc ggaagataaa ggagaaaagg tgagaggagg 120  
 cgccatccac taggaaataa gccatggaag aagaagcttc accactaaga gagtgccttg 180  
 gataaaaagc ttagagagga agcttcaatg gaggaaaaga aagagagaga gaggggaggg 240  
 gagcataaaa ttgaaggagg aaaagagaga gagaagttga actttgaaat gtgtctcaca 300

agactctcat tcataaaagt tacaacaagt gttacacatg cttctatnta tagcctangt 360

agcttccttg agaagcttct ttcata 386

<210> 29384

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29384

tgcttggtgg gcttctatgg aggctggatc tttgagcttc aatggtgttc tttgatgggtg 60

atcttccacc atggagatgc agctgaagac aaaggagaag aggagagagg aggcgccatc 120

cactanggaa taagccttgg aagaaggagc ttcaccacca agataagcct tggataagaa 180

gcttgagag gatgcttcaa tggaggaaaa gaaagaggga gagaaagaga gaggggggag 240

cacgaaattg aaggaagaca aaggagagaga agttgaactt tgtgttgtgt ctcaacagac 300

tctcattcct cacagttaca acaagtgtta cacatgcac tatttataga ctangtagct 360

tccatgagaa gctntcttga gaaaactttc ttgagaagct tctttgagaa aactttcttg 420

agaagctaga gcttagctac acaca 445

<210> 29385

<211> 385

<212> DNA

<213> Glycine max

<400> 29385

agctttaatc ttctagaagc accatgagct aacctcaaat ccatcaccat aatgaagtca 60

cacctaccat tctaaaaact taattccatt ccaaaacgac catatatagg gaccaaagta 120

caacattcca aatcaccatc taaagaaaag ttcaacggtg ttctacatat gttccaacca 180

agcacacaca gacaaacatg tcattaacac aaattataag caaacaaga taggaagacc 240

gcgaggggga atgagcgagg gaaaatgaac cttacaaacg atgagagagt gaagctattg 300

tgagggcgag ggcattgaat gatgacgacg ataacacaca cgagcttcga caacaacact 360

ggacaacttc gacatagacg ctttt 385

<210> 29386

<211> 436  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29386  
  
 tgtacgaata taagaaacat cttcttcgac cttggtgatc tttgtctcca tgtcatcgaa 60  
 ttgcatgtcc acttgtaact caagagcatc aacctttcac caacaaaggt ttgaagacca 120  
 tcaaacctat ccaaaacctt ttgaagaaga gaggaatctt ctccaccatg taaatgtcct 180  
 tcttcatcaa tggggttgagc accctttttc acccaagagc catcatgctc tttacgataa 240  
 ccaaaggatg caatcatagt ggcaccgatt aagaaggatc tcttgattgg aacataaggt 300  
 tcagaatcag gagggatggt atagtgttta aggaagagag tgactangtg tggatatggc 360  
 aatgtagcat ttaatcgcaa tgccttatgc atgcgatatc ggactaagtg tgcccaatca 420  
 atttgtcggc ctttat 436

<210> 29387  
 <211> 377  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29387  
  
 agctttcttt actcaaacat ggaaagaaga caatatatac aaggcattac caattgatta 60  
 ggagaataaa tttttcctta taaattttta caaatatta ccaattcttt ttcccatata 120  
 ggcattgcaat aaccccaact gcttaatcag gcttgctga acttcatctt ggaataattc 180  
 ctggattagg aggtagtaac tggatccaag attctctcca agactgttgg ctaatttccc 240  
 tagcacaatn tgattttttt ttttgtaaaa atgaaaagaa gttagaccgt gagtgagaca 300  
 ctntaacagt gcatgtctta tgactatttg tctttattta tgaaatnttc attagtatta 360  
 ttaacttaga agttaaa 377

<210> 29388  
 <211> 419  
 <212> DNA  
 <213> Glycine max  
  
 <400> 29388

agcttggttat tactatctcc cgctttgtga tgatgacaac cctaatatca agaaacacat 60  
acacattctt tgtcctagtc gatcactcac ttaatactcc atattctccc cctttgttct 120  
tgagtctaag cttcacttga aattaagcta ttgaatcata tgagagcttg atttaatccc 180  
tattatctct cccctatgg catcaacaaa aagccgaagt tgtaagaata taaaacgtca 240  
taaagatta taaagcataa taccaaatgt aagcacatat cactagacat atgtcatcag 300  
aataattaag tctaaaactc ataacaatta agagtaagtc aatatagtca tgtcaaggga 360  
tactaatcaa atcataaaaag acatactatg tattcacatg tcatagaaat atagatcat 419

<210> 29389  
<211> 407  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29389

tactaagctc gccaccagc tgcctangc gagctagggt gcttctctt gttgcattct 60  
ccttcggag gaacatcctg gaaggccgaa gtgggcttg atactatatg caaccccggt 120  
ttactacat acacccctt cctttattg gtgattctt ctccataacg ttacagaaac 180  
ttacgaattt cgtaacaata ctnttttct ttcgtaatg ttacggaacc ttacagatta 240  
cgtaatcatg ccttttatgc ctaccacaat gttacgaaac tntacagatt acgcactatg 300  
ctttcttttg gctttcggca tgtctcgga cttcacgaat tgcctaacga tgggtgcaa 360  
gtacctcaca gcggtcaaac gacggtcgca tcccagcaat ggatagt 407

<210> 29390  
<211> 406  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29390

agcttatggt tgtaatactt acttgntggt gatgaacaaa agcgcgaaat ggaatcaaaa 60  
aatgcgaaaa atgatgaccc tnaggctgca aactcgtaaa tcccgtgggt atggctttcg 120  
aaagggggga aaagaagtn ttgaatgcaa aaacgtccnc ctttcgtca cttttatatt 180  
ttggtgcaga ggtggctcgc ccaggcgagc tcagctcgcc caggcgagct aacctgcact 240

tttttttttt tttaggggga acattaacca tgtccccacc tttttcacgg gtttagcggtc 300  
 acctaacttg aacctactta agtcagaatt aggcgtcgat tacttattnt ataacaaaca 360  
 aatagtaaaa gaaaattgtg aatacaagga tactgggctg ccttac 406

<210> 29391  
 <211> 485  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29391

tcaagtatac aactaatact aacattgcc a tgagaacaac tattgatgat tcatgggttat 60  
 ggcattgaag atttggtcac ttcaacactc aagctttgat gttgctgcct caaaataata 120  
 tgatgagaga tctaccatgc ctatatgact ataatgaagc ttgtgaagga tgtcttctta 180  
 aaaagcaaca aaattaccat tttcaactaa caaagcatgt agagctaaag actcgtcaga 240  
 gttaatccac actaacattt gtggaccaat gaggacatcg tcaactaaaca acaacaggta 300  
 tttcatcctc tttattgatg acttttctag aatgacttgg tctacttctt tatagaanaa 360  
 tcaaaggctc ctggaatgtt caagaatttc aaagctcttg ttgagaaaca aagcacgaaa 420  
 catatttaaa gtaataagaa gtgttcaacg canagaatat aactcacatg agtttgataa 480  
 gttat 485

<210> 29392  
 <211> 375  
 <212> DNA  
 <213> Glycine max  
 <400> 29392

agcttttgct ttttttgttg ttcaccatgt tgctccttct atctctaaca ctgcactcca 60  
 ttccatccca ccatgtttgt ccttaaccac gaaaaacgac tttgttatcc tttgtgtaga 120  
 ccaagcaatg aagtacataa aatttgggat aaatatactt ggacacctag taagagagag 180  
 agagagagag agagagagag agaaaatata agcagaataa gtgatatgat agtgataaga 240  
 aaaaagagaa aaaaaaataa aaaatattga taagggtgtt gaatttttgg atgtccaaac 300  
 atcatgtttc taaaatttgt ctaaagctta agagcatctc tagcataagg ttcttatctg 360  
 gttccttcaa ttgaa 375

<210> 29393  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29393

acagagtggg acctgcagat atgtcgcggg ggtcaggaga ccttcggggac gtcaggtggg 60  
 gtgctattgc ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcgggtcag 120  
 tgagaacctg tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaaa 180  
 caagaccaca aagcatagag gcttgtgggtg gctggccagc tgtgaatttt gtgtaatatg 240  
 tggattgtgg cctctggtaa tcgattacca aaggtgagta atcgattaca acgcttacia 300  
 ttgaggacag gacgctaaga tggctctctgc gtaatcgata ccaaggggtg taatcgatta 360  
 ccaggcttga aaacgaagtc aggaaactta nggagcctct gcgtaatcga taccagcctg 420  
 tgtaatcgat tacacagagg aatgg 445

<210> 29394  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29394

gttttatggg tttagaatat cgatataatt gagggataat tattagaaac atagagagct 60  
 cctaagtttc cagatgcgat ctaattgatt acaatatgtg gtaatcgatt atatcaagct 120  
 acaaagactt tcttcttttg aaactagctt gggttatcga ttaattcaat aaaaattacc 180  
 aatatttgaa gagaactaaa ttttgttgct tgttctaaca ctntgcaatt gattacttaa 240  
 acttagtaat ctattacaca ttgtttgaac ttattgcttc ttagaaactt tgagattaat 300  
 ccattctatct tctcatgtnt gataaccact aagcatggat aaagagaact aaatctaana 360  
 cacttaacat gcctagttta gaaatatctg atacanatgc catatcttta 410

<210> 29395  
 <211> 492  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29395

ccgcttcaca tggagctaga tcatgtggta tcaagagcat ctttttctat gtgatgttct 60  
 tttgcttctt ctatcttttg gtttgggtcaa ttcacttttag agtagattca aaaaaataaa 120  
 ccgattaaat cttagatcta cacttggttct tgcatttcaa tgggttcaa tttatagatc 180  
 tactctaaaa tcatgttttt gtggtgattt tatgttctat catttttccag tcataatgtt 240  
 cttgtgttga accttttagat ctaaattttc ttccaaaata ttgattagaa actaagtgt 300  
 aatcacttaa tccatgttgt cttagagtca tgtttagtca taataattgt cacattatgt 360  
 tctaagtttg tgttaaactt ttttattctg ttgattgaat tctacatacc attgctcatg 420  
 tattcttgtc attcttagcc catcttttga atcttgagtc taattcatgc atcgtatnta 480  
 gttcataaca tt 492

<210> 29396  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29396

attnttatat atacacgcgc gaaatggggt ggacgtgcga tgaggctggt aacatgaatc 60  
 tataggccac tgggccaatg cgcgccgtta tctgaaagg tccataaaac cgcttggtta 120  
 gctaggaata tgtcggagcc agcgacgtct gccggtatgg tcggaagcgg acgtgtaccc 180  
 atacaccac ctcataagat atatcgcggc ggtgtttatc ggcagcaacc ttcattgagtt 240  
 cctgcgctcg ttgaaggcgg cgcgtaatt gcgcgtgtac ttgcagacgc gtggtgagta 300  
 gcgagtcaac ggcatcattc gacgattgac cttggagata g 341

<210> 29397  
 <211> 586  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29397

acggcaccca cgagcacgga aaacaacgca gccgaagaca gaacatcgac acctccccnn 60

cccccaagc ggggtttgtg acaccgtaga acancancgg caancnagcn cggacccggc 120  
 gaccccnaga gncgaccggc angcangcaa tcttttttagc taaacgagac ggaccacacc 180  
 gagagaagga gaagaacaac gaccacgccc acaagaatgg acggccnaga gagcaciaag 240  
 gaagcgccac ccgcaacgcg gcagacccaa cccgggaaga tgcagaagga agagccttgg 300  
 aggcgaagac aaaaccgccc caagaaggag ggaccgatga ggacacaacc aacgaccatg 360  
 aagcactgga aggaccacg accacaagca tacttagacg agcccaacac cgcacagaga 420  
 ccacgctggc caacaggata gccgccacag aagatgactg aacgccaag cgcagaaaga 480  
 cgaacgcca gaggcagaag cactaccaag accaccaaac gctgctgaaa gcccaaacia 540  
 acgcggaaga ccaacgcgaa taagtgtcac gcataaggca cgaaag 586

<210> 29398  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<400> 29398  
 ctggaactac ttattttgtt ttcattggcg ctatgcaggg tgaaagcctt ggaggaaaga 60  
 ggtctgecta tgttgttgtg gatgatttct ccacatttac ctgcgtctac tctatctgag 120  
 agaaaccaga atcctttgat gtattcaaag agctgagtct cagacttcaa acacaacagg 180  
 actgtgtcat caagagaatc aggagtgacc atggcagata gttctaacac agcagggttca 240  
 ctgaattctg cacatctgat ggcatcactc atgacttctc tgctgccatt acaccacaac 300  
 ag 302

<210> 29399  
 <211> 510  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29399

cgacgggggtt tgatcgctga ncacaccacc anaactacca agctgtagcc aatggactac 60  
 cttgaatagt gacttttaat gacttttcaa cccgcgagcc ctgcgcgtga ggtgaagctc 120  
 actaccagcc ttacgtgaaa aaccctgata ttaccatctc cttacagcat ccatgaccat 180  
 aggaattgcc tggagcatca gcgtgagggg ttcttagaaa acaccacaac tacgattggt 240



ggctatccaa gcatgatgag ctaaggacac acctgacgta cacagcacta acggttgaac 300  
gctcgacatg cacaatgaac tgtacactca cacaggcccc acactcttta ttgatgactt 360  
ttctacaaga ctgctcgat tcatcaagaa cacatacgcg tctatgtgag cgcacgaatt 420  
caaaccctcc tgacagacaa acccgaggcc actcctctgc tagaagcgtc acgcaccaca 480  
tcaactccatg acttgctaaa ctcccaaccc 510

<210> 29400  
<211> 298  
<212> DNA  
<213> Glycine max

<400> 29400

ctgcattttt actcctcgag accgacacag cagtcggcaa gcagacgagc gctacaaacc 60  
ttctctacta tggccttcaa caaaagcgaa tccatgtgat aatgactttg aggggagata 120  
tatttgtggt gcgcatctca aatgcccaaa gggatgctaa tctacactta gtccttgga 180  
gggtgcaaga agtgaaagta atccaagctg gtctgctggt caatataaca actgttctaa 240  
tcctgtcttc caccgttata ctgctggcgc caagaaaccg gcatgactct tccttaat 298

<210> 29401  
<211> 122  
<212> DNA  
<213> Glycine max

<400> 29401

ccacgactca caaaagactt cgaaaacaaa aaagcatact gaacaccatc ccaatatacc 60  
acaaaaccac aacaatacat atgcacgaag aacagtacaa ccaatatacc acacaaacat 120  
aa 122

<210> 29402  
<211> 341  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29402

tattcntttc attcaattct gagcgtctcg atatatgacg agactcaatc agacatccga 60

gtaaaaagtt attgtcgttt taattggctc agaggttcaa cattaaattt cgagcgtctc 120  
gctatattac gggactcaat caaacatccg agtaaaaagt tattgtcggt tgaattggct 180  
caaggcttca acattcaatt ttgagcgtct cgatatatga cgagactcaa tcagacatcc 240  
gagtaaaaag ttattgtcgt ttgcatttgc tcagaggttc aacattgaat ttcgagcgtc 300  
tcgatatatt acgggactca atcagacatc cgagtaaaaa g 341

<210> 29403  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29403

ttgagccaat tcaaacgaca ataactttta ctttttgtgt gatgagnctc gaaatataac 60  
gagacgctcg aatagaatg ttgaagctct tagccaattc aaacgtcaat aagtatttac 120  
tcggatatct gatttgttcc cgtcatatat cgagacactc gaaattgaat gttgaagctc 180  
tgagccaatt cagatgacaa taacttttta ctgggatgtc tgattgagaa ccgtaatata 240  
tcgagacgct cgaaattgaa tgttgaacct ctgagccaat tcaatcgaca ataactattc 300  
actcggatgt ctgattgaga cccgtaatat atcgagaccc tcgaaattga atgttgaagc 360  
tctgagccaa ttcaaacgac cataaatgta tactcggatg tctgattgag tcccagtata 420  
tatcgagacg ctcgatatag aatgttgaat c 451

<210> 29404  
<211> 320  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29404

tattctttcn cctgtcagag aattgtntc tagactacca atatcattcc aaaccttccc 60  
tattcccaca atgatgaccc ctttcccatg taactgaatt ccccttatga tttctcactc 120  
ctctaactaa cttgattccc cccactcaca aagcactgca aactaattc tgaactgact 180  
ctgttgccct cttggggcct acatgtgtaa accttcagag ggttcccaga attgagcaaa 240  
ttcctatcat tattatcgat gcacatactt atttgatcca gctactaacc caatcactta 300

tagatctggt ttctggtcag

320

<210> 29405  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29405

ggaatataat caacaagaag gtgtcattct tcacaaacaa gaagttggct ttttttaatt 60  
tttttttcat aagcacttaa ttaccagaaa agaaaataag aaggaaaaat gaaataagtt 120  
ttttttaaag ttaaaattaa cttatgctat nggtttgcac atttcaaggc tcaaaaccga 180  
acggtagaag gaacattggt atatcattga agatcaaact cattnttatg gatggaaagg 240  
tgattcttaa cttcaaccaa ccaaccaagc actaaaatta tttcataaaa taaaaaagtg 300  
ttaaaacagt gcaaaaacac ctaagctttn ggggacgtgg attcggagtg actgtataaa 360  
atcctagcca tanaaagcan atcatgtaca t 391

<210> 29406  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29406

actaagcttg atctttatgt gaagcagctt gaagattttc attttgtgtg ctagctgcat 60  
aatcanaag acaccattgt tttctatctt caactaaacc ctgtgctagt ccatttagat 120  
aaaatataaa cataaaaaaa aaatccagggt tttcatgtct actctagtca tgatgatcag 180  
gttttgggta atgaaacaca aataactctg aaattttttg agagaactaa ataagataaa 240  
tcctaacaat aaggggaaaa aaataattaa gaaaatcaag agatgtacac attacagatg 300  
tacaagagag caggatagtg agaccctag atcaaccaag ataaggatat ttagatttcc 360  
aatgttntt attatagggt ttaggagact cagatctcca aatggttgtg cccctgatgt 420  
tattcctatt gagtaccatg gtcaagttta caa 453

<210> 29407  
<211> 431  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29407

agctttttatt tnntgtcttc gccagtgaaa ggatcgatgt ggggtctgaaa aaagggcaaa 60  
tttgatcatc ctactangac gactgagaaa actggggcaa ataaagaggg tgaggataat 120  
ggagaaaccc atgttgtgac tgccattcct gtacgaccaa gtttcccacc aaccaacaa 180  
tatctttact cagccaataa caaaccttct ccttaccac caccangta tccacaaagg 240  
ccatccctaa atctaccaca aagtctgtct accgcacttc caatgacgaa caccaccttt 300  
agcacanacc ataaacacca accaagaagt tgaatttgca gcgagaaagc ctgtagaatt 360  
caccccaatt ccagtgtcct aagctgactt gctcccatat ctacttgata attcaatggt 420  
agccataacc c 431

<210> 29408

<211> 445

<212> DNA

<213> Glycine max

<400> 29408

actaagcttc ttcttctttc atactatctc atacttcggt tttttatttc tttctatgct 60  
atgcatctag cgccctctct gtgattggga atccccttgc ttcctttctt cctttgatag 120  
gaaactctcc ttctctgtca ctttgattgg aaataccctt tctcttcttt tatgcttacg 180  
aggctaacga ttgacattct cacactgagt cactgtttat ggtgagtcag gattttggct 240  
caagacttga agaatggcta cgcatggtag atgtcacggt ttggcttgcg tcaaagacaa 300  
aaacggatgc cccacattat ttccatgaca cagatgcaaa aatgatgata tagacatctt 360  
atgcaaaaact ggccatgcat gcacctatgc ggacactcaa gtgtcacatt tttatggtca 420  
tgtgatgcta cggctcaaga ttcatt 445

<210> 29409

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29409

agcttataag tacttttcctt acatgagaca naccaacccg cttatccacc cctaattttt 60  
 ggtcccttat ttttttattt taaatttcctt ttgctccttt atctgataaa agaataattta 120  
 atcattaatc tctcaaattt gaatcattgg tgctatttcg aaacaatgat ttttttaaatt 180  
 cttgcgagac attaaatgca tganaagaga agaatatatt gtctaacata tcgttgataa 240  
 ttattttctca acacaatttc aattganaag tcatccgaat aaaggaggat tagagacaat 300  
 gatagaactt aatttatcat tccatacatt actcanaaca aatgagatat tntatttata 360  
 gacataaatc tacaactcan naaaatcgcc caatgtattg gccaatanaa gtctttttgt 420  
 atgggttttt tcttcg 436

<210> 29410  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29410

tctttctggc gcaacgcaat tcatagcaca nacagagagt tatatagga gatggngagc 60  
 gacagcgagg cagagaagtc ggtgcagaaa gagaatgaga agaagaagat gttggccctg 120  
 gctcccattg ctaaactctt tgctgggaag aagctntgca agcgaaccct anaacttggt 180  
 cgtagagggt agctttatga tccattcgca ttctctcaat ttgtctgtgt ttttttttta 240  
 tttgctgctt ggtgtaggt aagtatatat attgtgttgt ttcagctgcc gaacacaaat 300  
 gcttgaaaag aggagtgaag gaggtcgta aaagtataag gagagggtcat aaaggggtctg 360  
 tctgttttct ttctaacttt ctctttctca caaaaacatt agaaatgctt accctaattn 420  
 tccggtattg tgaatgcaga tngtgtgtga ttgctgnnga acatatcacc gatgatgtca 480  
 tcactcat 488

<210> 29411  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29411

gaaaatgatt attaaacaca caaaatggaa gtactaagta tttattacct atacttaaca 60

gaaaatactt ataacactac aaaatagcca taatttggaa gagtttgata caatttacac 120  
aaggttatac acaaaagtta gttgtattca ccgactaaca ccaactagtgt gtgtagctgt 180  
ctaggaacat gtctttgttg gaacaattgg acatcaagtt gttgtcgtnn ttggtattgt 240  
taatcttga gttgcaagag ccttccatct tatangctnt gggggaaaat gatgatggtc 300  
tntgctcata ggacccctta tctgaagcag tgctctctga attcaaaagg ttcacttctt 360  
ttctattact ctcttac 377

<210> 29412  
<211> 323  
<212> DNA  
<213> Glycine max

<400> 29412

acactagtgg agagaccatg cgaagtatgg gtcgaaatcg cacgcgaagt gacataaata 60  
cgactagtca gggcgctgac cgtatataac agaaagacta ttgcaaaaa tagtggacca 120  
tgtaggaac atgttgaaat taccctatat tatataagaa aaacatagga gacaaactca 180  
aaaatattgt gggtcagcaa gataaatctt atatagcgat gcatatgcta cattccctat 240  
tcaactcctt tgcatcagag ctacgacaaa agagccgaac acaataaaga gatacagggt 300  
taaataacta aatggagagg aca 323

<210> 29413  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29413

agcttttgtt catatatagc tgcaattaac aagttttata ttataagtca tttaatgtat 60  
tttaaagtgt gatacataaa tagttttgtc ctcatctgta catccaaatc tttctatgca 120  
gtgcattgaa gacattaaag actacttctg acggtaaaat tgatcaacct acacatctgt 180  
gattgaagtgt aaggttagtc atacaatcaa tgggtattta tgactgttga tgttgtgtaa 240  
catctgaatt gtaagattga attatttttc atattgaatg tagagtcacg ttcaaagcgg 300  
aggccatgag tgtggctatt atgtcatgca ttggatgtag aacatagtga gtggngagtt 360  
gaagaatgaa tggagcatgg tatatttact tttgtataaa aattacnttg agtaacactt 420

tta

423

<210> 29414  
<211> 396  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29414

agttattccg aagttacacc acctgtgaat ggacaaccat ggagganatt gtttctcgac 60  
aaggaatagt tcgggtctaa aacaaattga ggctctctta taaaagaagc ccctagataa 120  
tagaccccaa aagaaccact gtaaattgaa aatgccgtaa atcacaggtg aattttgtag 180  
attaaatcta actntctcca attccttttc tctaattgta attttgtctt cgttctgctt 240  
aatgatattc atgaacttca atcttgatcg tctgtgatca taaaatcctc tagtcatact 300  
accattcttg ctttaattact ttatcgccag taataagtca gacaatctgt cagggaanaa 360  
cagtgttatg cagtgttacc gacaatgaaa agaact 396

<210> 29415  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29415

tttgttttaa aatgagttgg ttgagagttc caatcttctt tgaagactaa aggagagggg 60  
taatgcagct cccattctc agaagctaca agttttcgat tagctcttat gattggaata 120  
ttgaactcat ttgcaccctc ggcaatctcc ccaatctaag aggaaaagat tattagtcac 180  
ctcaccaagc atatcatagt aacaagaagc tcacaagtca acaaaattac ctgtttatcc 240  
tcgaagaagt tggcatcaag cagtccaaag aaacatccta ggctggaaac ataacctttc 300  
ttgtctgata attgacattg gtttttactt ccctgattga ttgcaaaaca aagatcagac 360  
ataatgaaag caacanatta taaagaaatg ctcaagtc anaacaatta gtgcctgaag 420  
attgaccaag ctctatacga attgcaataa gaaacttatt tc 462

<210> 29416  
<211> 437

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29416

ttctttttnt gtaccttgaa cctctnttag aaccatgcta tgtgctcgcg actggtcctt 60  
ttcttccttt cgcaacttga gttcactatt gctaccccat agagctccgc gaaatttggt 120  
cgggccatac tcttccttgc gagccctctt ggtctcttgt tcaagggctc ttgcggtaat 180  
tgcattctct tcccgttaacc cggcacactc cttccgaacg tgtgtagcgg ccaacttgaa 240  
cttctccttg gcaagttntg cctttcctaa ctgctnttg agagtttgga cttcttcgtc 300  
ctcttcgggt gcttcaaaac tctcttcgtt gacgactttt aacttggcga gccaatctaa 360  
acctcgtata tgaactttca tccattcgtg gtaccacca atgatgccat tacgaatgcc 420  
tctaagctct tgatctt 437

<210> 29417  
<211> 459  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29417

tgagaaagtc cttctgattn tgtttatata tttctgtctt tattatatga gatgaaatgc 60  
aaagattgga cctcctgtta gttgttatca ataagttgct taaacacttg tgcttaagtg 120  
agacagtagc catgagactg tggtttgagc tactttcctt gaatttgtct tatgattaac 180  
ctcatcta at tgtattgttc acattttggt ctctcttttg tctagctgca tattctgtga 240  
aaacaaggga taggtacaca ttgcttcac tttctcatca tgcaatcaat gaattttgat 300  
gcatacacc ctgtcgcaac ctacccttcg gcgggagggc gacgcgagac tcgcgggatg 360  
cgggttcac gaaaggaata cgcgcgagc cgccaccaac gtttatttga ggaanacgtc 420  
ggannaaccg ganaagacgc gatctacana ctnttaagt 459

<210> 29418  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations



<400> 29418

atttttcntg aggccttaga atactaaagg aagtgtgtca tcctctttct tcatttatta 60  
cgaaagtgtg atggaatctt aagtacacca ataattcaaa aaaatgtaaa tttattttgc 120  
gttgcgacct ctttagaaac attntcgtca tggagaaaga aagcaacatt gtagttatct 180  
ctaaatctaa aagctccatc cgtcactctt attcatttat tataaaagtg tgatgagatg 240  
ttatacacca ataaataaat aaaatagatg atgaaaaata aacatcctac atcacttcta 300  
aaaaaatgca atttagcaac cgaaagtagt gaccaaata tttcgactga agtagcgacc 360  
acagagttaa cgttgcaact cacgatngaa tntgcgaccg aattaatcat gatgttaac 419

<210> 29419

<211> 483

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29419

tgctcgngaa gagagaagag aataagctat cgcggtggtt aacagcgaaa aagagagaat 60  
gcttccgaaa gagggaaaaa aatgcttttt atttttataa atgaacggca aaattgacct 120  
ttcattgaat tgctgggtgc accaacaata ttgctgggtg cacctagcat atcccatggt 180  
ataaagaaca aattaagata atgagtatca attgtgttat aatatatctt attcatcatt 240  
aaattttatt gatttgtctt gcgtaacatt tctttatttc tttatttctt tcatcggtaa 300  
cttacettca cacgtggatt ttaagctcct agaatctcca ttgttaagct ccatataatt 360  
gatctgggta ggacaacata gagttaaca taatgacaat ggatgatagc taagtcttaa 420  
ttgctctgag ttgtcattct atccgtgatt agataaatga tgagtgatgc ttaatatgaa 480  
tct 483

<210> 29420

<211> 644

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29420

ccgccgcact cacaacagta cacgtantca cagcgtacac cccgcctanc acacntncnc 60

tccccccccc cgcgcgcggg gnattgatgc agtcgnatag caaccccatgc aanactcaag 120  
 canngccgac taacganaaa gcanccaccac agccccccac ctctcctgtg ctttancacg 180  
 agaagaaaag agagccatag cgaccgcacc gggcaagaga agcaacactc gctccgctaa 240  
 ccgccaataa cccaccatgc acagagaaac gagcgactga tgacacacac cataggactc 300  
 tgtgcataac cactcagatg accgcagcga acaccatgaa caaaccccaa ccaaaacata 360  
 atcacgaaaa ctcccagaat caccgcgaca cataaaacaa gcaggcccaa tcacagataa 420  
 aaacggatag atagacgccc tcgacgagac gccaacagcg caacagggcc atgacaaaaa 480  
 cccagaccac atatagagga cacaggtcac gtgcctgaca ggagaggaca tcccatgac 540  
 gaaagaccag atatcgatca gaccagatgg aagacatgac caaacggcat cgtaggaagc 600  
 ctagccagaa aagacacgca actgggacgg aagacgtggc cacn 644

<210> 29421  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29421

ttcttttttt taaattacga gcgtctcgat atattacggg actcaatcaa aactccaaat 60  
 tgaaagttat tgtcatttta ctctttatag agctttcgtt ntcaatttcg agcgtctcca 120  
 tatattaaag ggctcaattg gacatccgag tgaaaagtta ttgtcgtttg aattttctca 180  
 gagcttctgt tttcgattac gagcgtctcc atttattacg ggactcaatc ggacatccga 240  
 gtcaaaagtt atagtcgatt aaatttgcac agagcttttag ttttcaatta cgagcgtctc 300  
 gatatattac gggatacaat cggacatccg agttaaataa tattgtcgtt tgacttttct 360  
 tagagcttcc gttttcaatt tgagcgtctc gatatattac aaggctcgat cagaca 416

<210> 29422  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29422

ntgagcacat tcaaacaaca ataacttttg aatcgaaggt cngatttgtt ctcataggat 60

atcgagacgc tcgtaattga aaacagaagt tcttagaaaa atcaaatgac aataagtttt 120  
aactcggatg tcttattgag ccctgtaata tatcgagacg cacgaaattg aaaacggaag 180  
ctctaagaaa agtcaaacga caataacttt taactcggat gtccgattga gtgccgtaat 240  
atatcgagac gctcgttaatt gaaaactgat gctctgagca aattcaaatg acaataactt 300  
ttaactcgga tgtccgattg agtcccgtaa tatatcgaga cgctcgtaat tgaaaacaga 360  
agctctgagc aaattcaaat gacaataaca tttcactcgg atgtccaatt gtgtcccaga 420  
ggatatcga 429

<210> 29423  
<211> 514  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29423

cgccagttgt tgttgatcgt tgancncncg gcaatacagc gcggccgccc ggatactgta 60  
gagncgacct gcaagcattc aatcnatgag gcaacaacgc gcacaccac caagagcagg 120  
gatgccgagg gcagccgcat ctctttccac acacgaacga gagaggagca cacacatgac 180  
acggccccgaa gttagtctag cctcttattg tgaagcaagc tctccttttc tacttggtg 240  
ctgataaagc atgatttgct atccaggctc cactctttaa cataactaac aagaatgatg 300  
gcgaaactgt cacggaagtg gccctgtctc atatagcaag gatgcattat cgtgtaacca 360  
gatgagccaa gtatatgatt ctgcatatgc gccggattac ttaaaaaaga tcttttgctg 420  
aagagaacac tacgtaacgt aagaattttg gttgcaatca ttctgagatt cattcaagcg 480  
gacatctgac tacttnctaa ctgcacccta accg 514

<210> 29424  
<211> 422  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29424

atcttatcca ttntagcttt caagatgcta ggttgacctt gtgcgatggt tttgatgaag 60  
gtcccattaa tggaacttaa tggctagccc tatttcgcta gatgttagga atatcattaa 120

tagtatattt ttgaatgagg atacggttaa tgttgtgata tgggatgccc cccaaatggc 180  
gtttactcca ctaaateccac ataccagtgg ctactcaaa ccaccttcgc caatggaaac 240  
ccaacttcgc aagactccta gatatggtct ctgcatctct ctgaacatat canacacttt 300  
ntatggctca ccgatcacia aaagtctccc cactaaaagn ttttgtcttt acagacatta 360  
tttctagctg ctttgttagt aagtggctca tctcatgaag aaactattct tcatctcttg 420  
aa 422

<210> 29425  
<211> 468  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29425

tacccttatg gctggcctcc ggacttcact ctttgtgctt ctccggaaga tgtgagccaa 60  
gccctacct tcaaggggca acttcctcct tatgcgatt acccctgca agaagacgac 120  
gacggagaca cccatctggg ccctctgctt cccctcaagg atccagctcc ccatgaacta 180  
ccccaaccaa acatagtccg ccatgtccca tcttcaccg caccgtaaa agaatcagtt 240  
ccattcacag aagataaggg aaagattgat gcgcttgaag agaggctaag agcagtagag 300  
ggcctcggtt attaccggtt ctgagattta gtggacctat gtctcgtgcc tgacatcgtc 360  
atcccccca agttcanagt accggattnt gataagtaca aagggacgac atgtccaaaa 420  
gggcatcttc ggatgtattg ccgaaatatg gnggcgtatt ctgtggac 468

<210> 29426  
<211> 436  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29426

agcntttatt ttnttgaat caaataaaac accaagatag tctcatattg taaaattgcc 60  
aatcgtgtc tcaatagaat taattgattg atctaatatg tataaaaaat actcgatag 120  
aaaagattct tcaggatgaat gtgtgatctc attactaata ttttcatcaa aatgagaatt 180  
tctattaatt ttacgttttt cacgaaattt tggctttata tccatttcga tagccatttt 240

ttctgtggat tttaaagtca atgcaaacc attttcccta taatgtttta aataagtgat 300  
aagacctttt aaatgatcta tggcaacatc tatatgcata ncctttgatt gtagaatttt 360  
gctaatagaa ttgacagcaa acaaaatata ataccanata ttcattccta ataacaattc 420  
acaatcttca agttca 436

<210> 29427  
<211> 493  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29427

ngtgacgata tttaaaanat gacaccaa ataaataaag ggtaatatta tattgcgaca 60  
ttttatcaaa tattgtctat atcacatgtc ctgctaaagc atttagtgat atgaactata 120  
tacaatattt gataaaatat atattacaaa aacatattaa taacaattat tcatatttga 180  
tgatattttt taaatgttgt caaaaactat tcacaatatt ttactaaaa tgtgacgggtg 240  
tatataaatg ggtagtaa atgaatcctt ggtcattccc tagtattagt acaactattc 300  
atgtatatcc acaaatgtac gtagatattt attaaaatat ttttttctaa gaagtaaaac 360  
ataaaataaa aattgaaata tatatgtata caaacataa attagaatta ctctatatat 420  
gataaagaac gtntaaataa tgtcacatta cacgtaccta catgtatgag tacctcatta 480  
tatatccatc att 493

<210> 29428  
<211> 431  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29428

agcttctact atgtggcang gcgggcttcc ttcactttct tgtctccaac gcgagctttg 60  
accactgttc ttccttcccg cgatgcttct tttcatgtcc gcctgagtag gcttatagcc 120  
taaaccatac ttcccacgat ntcttgggt atntatcagg ctagttatgc cgcggttgtc 180  
tttgctaaa cccatcccg gttcataacc gttcccaac ataactcggg ccatcattac 240  
cgctgcatcg gacagacaag gctgccc aaa gagggagtcc acggaggata tgctgaccac 300

ctcanaagac tggaaagtag tttctaacga ttcttctgcg gcttccacat aagccatgga 360  
 ggatgggcag cttaccaaga tatcttctcgc gcttgacacg atgaccaagt gccctccac 420  
 tacgaatttc a 431

<210> 29429  
 <211> 479  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29429

tatgcgcata cttcttcacg aacgttctact tacacaagat tntttttatt actaagacna 60  
 atgcacccat atacaatcaa ggcaccttcg ttacctagat tatttacatg tacttccaag 120  
 gagtatttgt tacctacatc acacacattt cctttgctaa attcacatac atgcatactc 180  
 taagcacttc ggctatcaaa aattcacata catgcatact ctaaagccgc atgcaaattc 240  
 aagtatattt tcttttgctc actaaaattg tattcaaatt aaaaggtatt tttgtaattg 300  
 attttcttta cataacatgc aacatattta tagatctttg tgagacattn tgactaccaa 360  
 aaattatatg tacatacatc caagtattct gctaccattc ccaaagtgtg catttccaaa 420  
 ggtattttgc tacctattct aacctacaca tgtatgatga agcagaattc taacctatct 479

<210> 29430  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29430

agctatttgtt acgattcact gngacagtca aagtgtcatt cacttaacaa atcaccaa 60  
 gtaccatgag aggacaaagc acatagatgt gaaactacac ttcacagag atgtgattga 120  
 atctgagaag gtgaagggtgg agaaggtttc acagaagaaa acctgggtga tatgtttaca 180  
 aaatccctct ctagtgtcaa gttcaagcac tgcttgact tgatcaattt tgaagatgcc 240  
 taaagcagat ngatagaagt gcagccttga atcacaatgt agacacttgc ttgattggag 300  
 tcaagggtgga gatttgtggt gtgtgactca naatcacaat tggcacaagt gagaaggctt 360  
 tanagtgggt ctgtcataac tgttntcagt tattataacn tgaattagtt tggcaccaaa 420

gtat

424

<210> 29431  
<211> 487  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29431

tgaagtgaga cagtgtggaa tagtcagtct tectactttt tntgttgacc acagagtcag 60  
tcttcctaca cccggagata tgtcgcggcg gtcaggagac cttgaggaca tcaggtggag 120  
tgctattgcc cagaaccaag cttgaccaat cccgacccaa cccgggcata gtcagtcagt 180  
gagaacctgt gacgtaccta aacaggcgag ctccctggcag tcaaccaata aaagaacaaa 240  
aaccacaaag cacggaggct tgtgtggtgg ctggccagct atggaacttg agtgatattt 300  
ggaatatggc ctctggtaat cgattacaaa ggggtgtgtaa tcgactacaa ggcttacaaa 360  
tggggtcagg aagttgagat ggcctctggt aatcgattac caacgggtgt aatcgattac 420  
caggcttaga tatagagaca atatgttgag gaggcctctg gtaatcgatt accaatattg 480  
tgtaatc 487

<210> 29432  
<211> 339  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29432

ttcacgagag cttccgttgt tcaatttcga gtgtcactat atgtgatgcg cctaaattgg 60  
acattcgagt taaatgttat gaccatttga gattctcaag aacttccgtt gttcaattct 120  
gagcgtctcg ttatgtgatt tgccctgaatc ggacatccgt gtgaaaagtt atgaccattt 180  
gaatttctca agagcttccg ttgttcaatt tcgagcctat cgacatatta tgcgcctgaa 240  
tcagacatcc gtgtganaag ttataaccat ttgaatttca tgagaagctt cgttgttcaa 300  
tttcgagcat ctctacatat tatgcgcccc aatctgaca 339

<210> 29433  
<211> 434  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29433

tgggaggatn gatggngacc cggtgttgag agaaacgatt tatgggctac gtggaagtac 60  
gtgagctcag ttggaggtgg gcaacagggg atggtgggtt tatgcgcgca ttgtggatgt 120  
ggaaaacttg ttgtgcacca tcgcccagacc gccacctagt accacatgtg atgggtaccc 180  
cataatccta caagcttgag atgaggaagt gttgaagggt gaaacttctt gctttttattg 240  
ttgaccacag agtgggtacct ggagatatgt tgcgggggtc aggagacctt gnggacgtca 300  
ggtgggggtgc tattgcccaa aaccaagctt gaccaatccc gacccaaccc gggcatagtc 360  
ggtcagtgtg aacctgtgat gtacctaaac aggcgagctc ctggcagtca acagataaaa 420  
ggaacaaaga ccac 434

<210> 29434

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29434

agctttttaat gtgatttata aaataagtgt tcaagattga atgaatgaat taattgaaaa 60  
gcaaatcaaa gccttgcttt tatagactct tcatgtctgg ccaagaggac catttagaag 120  
agttacaact tttagaataa ctanaacca atttgaaaaa gtcaaacct ttttgaagag 180  
ttacatcttt cgattttattc agaaacaatc actggtaatc gattaccaa tcagtgtaat 240  
cgattacaca aggcttttat gtgaaaggat gtgactcttc acatttgaat ttgaatttca 300  
acattcaaag ggactggtaa tcgattacca aaacattgta attgattaca gctttttgaa 360  
attaattgga acgttgtaaa ttcaatttga aaactttntc anaacaattt tgctactggt 420  
aatcgattac aacaatctg 439

<210> 29435

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29435



atcaacatgc aactntgaaa atgtataata aagtcttttc ctggcttcca tagggttcca 60  
aaactcaata aacttcatat aaagccaaca ttngagactc anagttgana accaatcggt 120  
tcaaacaata aaactcatta caattcanag aataagcttc ctttaacgat tcaaacacaa 180  
aagatgactn tgcaaagaag gaaaggaaag aagggtgagc tttaggtcca agagaggagc 240  
tttctccac tctacaaca accacactac tgatgcatca accaaacccc anagtcaacc 300  
aaaaatagaa ttaaccccc cccccccaa atcaagggtt tccatgaact tccatgggtg 360  
ctaaagagaa aatgaanat ggaattcaag agagggaaaa aaaagtactt acta 414

<210> 29436  
<211> 321  
<212> DNA  
<213> Glycine max

<400> 29436

caccttctcg ctaagccaat ctgccttggg gtgggcagcc caccgtctaa tgaaatacat 60  
gctgagccat actacctgct tgggtgtcaa gatggatccg gttaagtata tcttcgagaa 120  
gctttccctc acgggacgga tcgctcgatg ccaagtgttg ttatccgaat ctactaatg 180  
tgcgctaagc agttcataag tgcgctaagt gcacgagcac gaacaaggcc acctatttaa 240  
gcctgaaatc agattttaga gagggagttt ggactggaat tcagagcttt gcatgtctag 300  
agtttctagg gagagaaagg t 321

<210> 29437  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29437

ggtcacatgt agatcttatt gtggacccca acatattagt ataaatgtta gcatgcttat 60  
ctctaaagaa aacagaggaa gctttgatga tgcctaagaa gatcttttct ccaagggtgg 120  
agctgtagat atggaatggc caacacaaaa aatagaaac aaactttcat ctacctaagc 180  
ttttcacatg cacaacaatg tctcaaggaa tcagtgaatc taatcctcat ctacagtgtc 240  
aaccattttt taacaactct gattggactg tgatactaag tcgtgaaagt aaactcagtt 300

aaacttttcta aggtacccaa accatgtaat tgttttacca tatntttaga taaactcagc 360  
 agaattcctc aacaaatggg tttagccttc catcacatgg aagcaccttt aacaatcaag 420  
 aagtgggctt ttagagatca caccagaata cat 453

<210> 29438  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29438

agtcttttaa taaaaaatnt cctgataacc tttcaatgac aatgtcaaca tctgctttgc 60  
 tctggggacc atgtatgagg acccttgtaa ggttcaaaat gtcaccatag tcaccatac 120  
 taagtgccat ttcattagaa gtttgagaag gcaagtcctc ttcagtcact gcacctatat 180  
 gaggaccgaa taatggctgt gagactntgg atccagcatc aagtctgata caaattatag 240  
 ccattgcata cgcaactcca ccaaaacctg tgtgtgatac aaaaaggtaa ctacctgcag 300  
 agctacaata aagcaagagt ttagaagtta gtacattgct atattcaaac aaagaataag 360  
 attaacatgg agggattaca gtttctagac aataaggata cagactcaga acaaatgaag 420  
 aacatt 426

<210> 29439  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29439

cgagtaatag aaataagatt ctatcataac tagagatttt gtgttaatta attntttttt 60  
 tactaattag tgtctttaga atattgatta aaaaattaaa aaaatattta ttatataaat 120  
 aataagacag cataaaaaaa ttataaagaa gataaatcca ataaaatatt tttactttaa 180  
 tttttttaat caatatcttt agaatactta ttaatatttt ccttgaacaa attcctaaac 240  
 actaaaacta tttatattta ggcataatttt taacatctct ggaaacaaac aagacaccaa 300  
 aaacttaaag tgatggaaca gaaggaatct ccaacagcaa ctaattaatc ccgcacttgg 360  
 ggaagcgaac aagaaaactn tatcctccca ctttctcttt gagtaccatc accacttgca 420

ttgctaggaa gagt

434

<210> 29440  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29440

gttttgaatt cttctatgcc ccttaggggc ctccttgctt tgatgtcttc atcttcattc 60  
ttctacaatc ggtgatcttt ttctttgttt aaagcaagtt tcgaccgatt aattgtgtcg 120  
taatctcact taatcaccat ttaaatgaat ttcaaccaat cgtttgtgtt gtaatctcgt 180  
ttaatcaccg ttaaaataaa attcaaccaa tcgtttgtac tgtaatatca gttaatcata 240  
naaaaaaaag tttcaactgg tcatttactt tgtaagtctt cctttaatga gttggaaaat 300  
aaccaaggaa aaccaaagct aanatcaact cataatcaag cttttgtcca caagaaaatc 360  
gcttgaaccc gtccaaaggt ccaacgcctt aaacagtctt ntttaacttt atcg 414

<210> 29441  
<211> 325  
<212> DNA  
<213> Glycine max

<400> 29441

tgccacccaa ctgcaccaag cgagctacag agcttactca taggcaaccg acatctggag 60  
gaacatactg gaaggcccaa gagggcctgt taagcgatct gcaccctcat aattactata 120  
tacacccctg cgtataacag gtgatgcttt tgccctaacg atacggatac ttacgagttt 180  
ctcaacgata cttgttacct tatcgcatgg tcagagaccc ttacgcgtac ttacatcata 240  
cctaacatgc cttccggaac gtgacgaaac tagacgaatc gcgaactatg ctttctgcag 300  
gctgccaaca tgtgtccaaa atcta 325

<210> 29442  
<211> 364  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29442

attangtgnc ttattgngc taccataa agctgcatg aatatgtcac ggccatgctc 60  
 ttccttgcca gccctcttgg tttcttggtc aacggctttt gcggttaattg cattaccttc 120  
 atcgaactca acacactctt tccggacgtt tgtagcgacc aacttgaatt tttctttggc 180  
 aagtctcgct tttcctatct cggttatcaa agctcagact tcttcacact cttctggagc 240  
 ttccaagcta tcttcgttga taatctttaa cttggcgagc caatctaaac ctctgtgtacg 300  
 aactttcagc cattcatgat aaccaccaat gatgccatta caaatgcnc taagttcttt 360  
 atct 364

<210> 29443  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<400> 29443  
 tgagagactg atatgtagtg ttcaaagtgg cacaatgacg ctgcttgacc attacacctg 60  
 tatttgaagt ccacacttca gagttgatga tatagccac gccgcccttg accgaattga 120  
 gactctctac tacttactaa tcgcttgac atgatggatg aacacacttg tataggtgcg 180  
 gactctaaga cactcatgga tgtgaacctt tgacctgatt cttcttcaca tggagagcct 240  
 gtatgctcac tgag 254

<210> 29444  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29444

ttttttgata tggagatcaa attgaccttg aagctatgta tatatacaac atcctctaag 60  
 tatagaaact gagaaaattg cactgtgcct acatgagttg caatgactgt gtggccaatg 120  
 ggaagcttaa aattatggga tttatcttct tacaagaaga aaataagtaa ggaaaagtta 180  
 tgacatgatc agtggcttct gaattgagta tccattcatc tggacctgtc ttgcttacac 240  
 tacaagtaat ggataagaca ttacctctgt gtgcattgct ggaaccaatg attgtactaa 300  
 tttgattcac atgntgaatt gtgtgactcg agctctattg ctacagcang gccattagag 360  
 ccttatattg ttgagaagtc aactntatta tagtactttg ctcatcttga ttgttggtta 420

ctcattggca ag

432

<210> 29445  
<211> 483  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29445

taaataactca gcttgaacaa ttactggcct tcattaactg tcttttggttt tgtggccacg 60  
ctcaacaaag tactttcgac acctactgta cgttgatttc accaatgctg ttatgggaat 120  
gttgcgacaa tcctttaaaa ccttattgat acattctgag aggttcgctg tcatgtggcc 180  
atatcgacgt ccttctctat cgtaagccat cgtccatttt tcctttgaga tgcgatcaat 240  
ccatgttgct atggctggac tcagttcacg aaatttttct aaattntgat cagaaatgtg 300  
cttgcatgga gtgtaggctg cataaaatta gttatgaata acacatttaa gtataaatga 360  
aagtaaaata aacgtgacca gcanatatga gatcttacc c aatttcttca acatttcttt 420  
gtgtttgcat tattgaatct tcgattgaca gtgcttgat gtgtcgaca cagagacatg 480  
ata 483

<210> 29446  
<211> 386  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29446

atcttggttg gntctacttc tctgatcatc tggttaataaa gccaatgttg aaaatttctt 60  
gggactcact atctcaagtt tctcagtaat ttccttgaat gctggaacaa ggccacgcct 120  
tatgaagcac ccttctataa gccgcatcga atttaactcg gggagactag gagcatcttt 180  
taactccaga tccaagcaaa atggggagtc ttttagccac atcctgagag agtgagcctt 240  
ggccacaagg atgccttgct gtgtcttaca aggaagaaaa ggcgatccca tttcccanag 300  
gcatgccttc aatgtgctgt caagagatac catgttatac tctngctgtt cccgtataag 360  
tacaactgga tttggtgact ctggat 386

<210> 29447  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29447

cacattggag aagttntatc cactgttcct acaattgttt gggcttattn tttttttatt 60  
 aagtcttcat ttaaaagtgc aaaatcctta aacatatttg ttcattcttc aacttcattc 120  
 atgtgacaac acgaattaag ttattctgtc tggagaacca aaagatgttt tctgcttggt 180  
 ttttgtttct ttcattgcat aaattcgagg attagcagac ttgtatattt gttttgttga 240  
 ctttgtaatg actcttgaag ccttcttatg gtaagctggc ttttgtagga ataagtttct 300  
 tgtgatgaaa agagaatttc ccctcttgat tgacagggaa caatatgtac tagcaatggt 360  
 tttcggtgaa gtgaattaac acaaacatat acatgcaacc gtgtttcgag tttcaaccaa 420  
 tntagtgaaa ctaaagttag aactaanagt cac 453

<210> 29448  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29448

ttcnttgatg attnggnctt tgccagtgaaggatcaatg tgggtctgaa naaaggaaaa 60  
 tttagtcatc cttcttgat gaatgagaaa actggggcaa atgaagaatg tgagaaagag 120  
 ggagaaaccc atgctgtgac tgctattcct atacggccaa gtttcccacc aaccananaa 180  
 tgtcattact cagccaataa caaacctcct taccaccac ccagttatcc acaaaggcca 240  
 tccctaaatc aaccacaaag cctgtctacc gcaattccaa tgacgaagac cacctttagc 300  
 acanaccana aaaaaaacac caacaaaaag gaattttgca gcaaatagcc tgtanggttc 360  
 accccaaatt ccgttgatc atgctaaact tgatcccata tctactagat aattcaat 418

<210> 29449  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 29449

taagcccaat aatcagacaa acttggcaca agatgaagga tcagaatttg aggttgtaat 60  
gctcatggca accacaagca atgaatcctc caatgacact tcatggtact tggattctgg 120  
ctattccact catatgacaa ggagaaagga atggttcatt agtttggatg actcatcaaa 180  
gagcanagtt tgttttgcag atgatagcag tctcactgca gaaggcattg gcagagtggc 240  
tcttagagac acaaatggaa aagacaçagt cattgaggag gttctatatg tgcttggcct 300  
gaagacaaac ctgctgagtc tagggaacct actgcacaag ggaattgtca tgacaatgg 359

<210> 29450

<211> 350

<212> DNA

<213> Glycine max

<400> 29450

agcttgatcat ttttctcccc aggcgagccg atgtgcttcc tccataatca tcccccttct 60  
gaaggaagaa tctggaatga ccaagagggg ctggatgcta tttgcacgcc catttgact 120  
agatacacac gatgccttca ttggtgattc tgtttgacta aacatacaaa gctttactaa 180  
tattgttaca atgcttggtc ttacatctat atgtgacgat gccttacaga ctacgtaatc 240  
tacccttga tggatagatg gatgttcaaa acattacgga tcgcgctatt acacttactc 300  
ttcattatcg gcatgtcacg caacttctcg gattgtgcta ctatgcttta 350

<210> 29451

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29451

agcttggtttt ttatttgtcc tccatgtata ttcttcttgc cataactgaa atccaaacaa 60  
ataagcattt aggtcaaatt gagaaagatg gatctgccat tttgaccaga aaaagaaaga 120  
atacnatgta caagaaaact gggatgttat ggatcatgac ataacgtttt ccataaattg 180  
agtgagagtg agagagataa tgacaaagat aaaactgata ttattgctta gaaagaaaaa 240  
aaccataga gttagataca acagaggat cttaaagagtt ttgacttgag aaactaacca 300  
caactaactc taactacctc taactaactt ctaacagaat gtaaactaac tctaactacc 360

tctaactaac ttctaacaaa atgtaactac ttgagcgcaa tctagtgaaa actatcagcc 420  
 cttacaacat atacactg 438

<210> 29452  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29452

gcgacctatg atactcagct gactgtgtca tntgtggttc ttggtattgc tgtttacatt 60  
 tccacctctg ttggttgctc cacgtattgc tccacgtgctc ttctttttca gccttcatcc 120  
 cgagccttct tgctttccat tntatcttctc catttctctc tctctcatgc tttctagagc 180  
 tgggtgcttta ggaggagtag tgattcgatg gttgaagtta ttaatccatt atttattttt 240  
 tcaatcgtga gagaagagaa aaggacaatg aagaagaaga atgcaaaagc aatcccatct 300  
 gtgtgtttgc atattagaag ggagggctat caaactaagg ttcttttggt ttccttcctt 360  
 tattatgcac tctctctctc tctctctctc tctctcgtctc acgct 405

<210> 29453  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 29453

agctttacat tgcggttgcc tgaggaagag aaattggttg aagtgccaaag acttcccatc 60  
 gaatctccgg tgtgagtccc gaagataaag caacttaaca ggaatggagg gggaagccct 120  
 atcacacgat tagctaacct ctcaaattct gttaagtaat cgtaataga tccacgctat 180  
 gaaagtccga agagagctca ttctggatca tcatagaatg acggcgcgaa catggactct 240  
 atagcttgca gaaagccgga ccaagacgtg atgaatccat tgtggaacat ccaactggtac 300  
 caactcaaag cggcatcgctc gagatagaac gaagctacag taatcctttc ttcttccggt 360  
 gtgtttgggt aatcaaataag atgtgttatt ttgaatatcc atcctagtgg atcctggcta 420  
 tcg 423

<210> 29454



<211> 490  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29454

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 aatataatca atggtacctg atatcaattc ttttatccaa aatagcaa at gacaacacac 120  
 attacacatt gccaaagtga gatataagat tggttgagta gtaaagaagg agaggaaggt 180  
 cgtgggttcg atccctcctg gtgacaaaaa ctaacaaact gacaattaaa atttgccgat 240  
 cataaaaaaa ttacacattt ccaggtgaaa gatgagttgc ttgtaaaagg cacataagta 300  
 actaaggagg tagacaagat tttcctagga tgtttgagag gtanggagag aaaacaagaa 360  
 atgagcaaag aacctggagt taaacatatt gatggctcag tgggtctcttg gatacctgaa 420  
 cagattgcct tgagtactgc tgctcttgac agcttaccta anagcgggta ataataatat 480  
 acaattatac 490

<210> 29455  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29455

agcttatggg tattgtaagg agaataaaac aatccanaat caattgtacc tttcaagtaa 60  
 cgaagaattc tttttgcggc ttttagatgt ggagaggtag gagccttcgt aaagagacac 120  
 acaactccca ccgcatatag aatatcgggc cttgtattgg ctagatacct taaactcccc 180  
 acaagactct tgaagatcgt ggagtctacc ttctgtcctt catcaaactt tgataacttc 240  
 aagccacctt ccataggtgt gttcacagga ttgcaatcaa gcatattaaa tttcttcaac 300  
 acttcttttg tgtacctttc ttgtgagaca aagataccat tctccgtttg cttcacttcc 360  
 attcccaagt aatatgacat aagtcccata tttgtcatat canattcacg agacatggac 420  
 tccttgaagt cttcaaac 438

<210> 29456  
 <211> 465  
 <212> DNA

<213> Glycine max  
 <223> unsure at all n locations  
 <400> 29456

gttataggtt tcatatatgt ctcaccatag atcttactcg tcttggagta gactctggtg 60  
 atgatagttc ttgatcttgt tgttgtggtg gaggtgaagg tggttcacct gggctcttctt 120  
 cctcagctat ttcttgaggt agttgagcgg gtataagaac attcttttcc actttttctt 180  
 caccccaatt ccaagaagcg tactcatcaa cttcaacatc tcaactgatg acgagtttct 240  
 tagtttgcaa gttgtagaca cggtagccct tagagatatt gctataccca aggaagatac 300  
 ctcgatatgt cttgtcttca agtttgtgcc tcttcacgtc tggaatataa atgtagcata 360  
 tagatccaaa gacccttang tgctntgctg atggcttctt nccgttccaa gattcaattg 420  
 gagtcttgtc ttttacagac ttnagtggac atctgttgag tgtgt 465

<210> 29457  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <400> 29457

ttctttttat gcctttcagc aatggtaatt ggtgcctcat ttgatatcc attgtgctta 60  
 tgatgttttg catttaagtt catcgtgttc tgattgcttt ccaatgttta ttttcacgta 120  
 aaatttcaag gttgcagtga gttttactgt tgtttcagag tcttttatga gtcagggcat 180  
 tgtttatttg acttcttttt ctcttggcag gtttggttta tggccgaatt ttcacatatt 240  
 cttgtagatt gtgatgaggt atgttataaa attaaagatg ctccccattg aaatcattgt 300  
 agccttttat tgaagcttcc ttacatatgc aattgtaa at ggttcccca ctttgaatca 360  
 ttattgttgg actaggcata tctctgataa tactgaggtg aaaatataat gaaataatct 420  
 tttagatg 428

<210> 29458  
 <211> 487  
 <212> DNA  
 <213> Glycine max  
 <400> 29458

tggggataaa tccaccttat caccacaagc caagattatt tgatcaatgt ttttttatat 60

aattaaaatt tatgataaat aacttatatt gtaatataag attaatttta acaatggata 120  
 ctttttttaa aaaatattga aattaaactt taaaaaaaaat ggaaaggata ggttaaaaga 180  
 gataagacaa atccataaaa aaaatattag ttgaagattt tttaaaataa aaatactttc 240  
 gttaaaaaaa tacttccgat aaaaatatta gtctaattat tatectattt tttccttata 300  
 taaaacaaga actaatttta aaagattttc tcgggataaa atcagaaact ttttttttct 360  
 tatacaaagc taaaatttga atttaaccta attcttgaat agttataaaa atcatccaaa 420  
 tccagactaa aaaagagaac ccacgtctta ttatgttgtg tcgtgtcaca aggacaagac 480  
 atgaaac 487

<210> 29459  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29459

agctttaagt tgcaatagt ctaaggtttc tggttttagt tactccatat tgttgacaat 60  
 taacttgggt ttctaccttt gtgatcattt agtttaaatgt gctaagttgt ttcaagtttg 120  
 gtctttggca agtgtgtaca aagtttagtac ctatcacttt ctatattttt tgttgttcag 180  
 acctcactat gaagactaaa agtttcaagt ctttaatatg ttagttttta aatatttttg 240  
 gaggtagatg ttgaaggtac ttacgtctgg ccttgtggga gagctcattt tcttgaaggc 300  
 tatgtcagtt tttagtaaaa ggctatgtca gttnttaaca gtgttacttt attgctatga 360  
 aaaatgttgt ctttgagagt ggtgatgctc acacaatact tagaaacaaa gtatcaataa 420  
 atcgtgtatg gaac 434

<210> 29460  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29460

taccncact actaccacac accaccacc aaacctatct ttgtttagaa aatgacatcg 60  
 gcagaaatgc agttgagaag agaaaggggc ctatgcttta cttgtgatga caagttttcc 120

cctagccatc gttgtcctaa taagcaatat tttgttcac agtgggaaga agaggatgaa 180  
 cctgcattac aaccagatcc accagacgag gttgagacag ctggtgaccc cagtttgcaa 240  
 gatcatcatt tgtcttataa tgctttaaaa ggctcatcan gtcttgngac aatgaagttt 300  
 caaggatcaa taaatggatt gagagtgtag attctactag atagtgggag ttcagataac 360  
 ttctccagc ctagactagc tcaatgcctg aagttacct 399

<210> 29461  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29461

ttctttanat ataactgttt gagaaaatgt ccaactaana agtgaaataa aggaagaaag 60  
 agaaagataa gaggaaaaaa agaaaaaaga caggagaaga ttgaggaagt gaaagacaaa 120  
 aatgaaggag tgtagcggcc tcgtaggaac atgactgata aagaagaaag gaggtggctc 180  
 tatgatgcaa tcctactccg caagggcatt ggatagaaaa actccaagta gattgggcca 240  
 gagatgcaag agaaggccct agggttctta tgagccttan ggtagatttc gggcccatgg 300  
 gctaagtacg agcccgtta tctttgtaaa tattagatta aggtttcatn tattttgggc 360  
 cttgtattta nggctccata atgtaggtag ggtaccctag aaatat 406

<210> 29462  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29462

tgtggcggct gaggatgagg acgttgttgc tttgatagtg cattttgctt tcaaggacac 60  
 tactgttaaa aagaaaaatg aggttaactga tgcaatgagt cagagggggg aaaaaaata 120  
 atggtcgaag agaaaaaat aaaagaccaa gaaaaataaa tagaggtaga aaaagaaaaa 180  
 gaaaaagaag aaaaagaaaa agttaaaaaa ataataaaga tgaagaaaag agtagaagt 240  
 caaaagaaag agaaaagagg aaagagaaaag cttcagataa gggtagggaa gttccatc 300  
 ccgtggtacc gtccaagaaa gataaggact gccatctggc gagattccta gacattntta 360

ggaaactgga aataactgat tcctttggag aagctntaca gcagatgcca ctctactcan 420  
agttnttgaa aggttngttg acaaggaagc acaagtacat tcaccaggag aatatcatt 479

<210> 29463  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29463

ttctttatgt ttatgaatca agttgattca agaagtttag ataatgacaa agatgtagac 60  
aaaaagccca aagaatgatg tcaagattaa atcaagaaca aattcaagaa tcaagagaag 120  
tttgatttca agattcaaga aaagatgaat tcaagttcca agagaagaaa tcaagaagac 180  
ttcacaaggg aagtattgaa aagatttttc aaaaaacaac atagcacnag ttgtgttttc 240  
aaaagagttt ttctcacaag tttctaagtt accagagttt ttactctctg gtaatcgatt 300  
cccagtttcc tataatcaat taccagtgc aaagtttgat ntcaaaagtt ttcaactgaa 360  
tttgcaacgt tccaattgat ttcanaatgg tgtaatcgat tacaagatat tggtaatcga 420  
ttacca 426

<210> 29464  
<211> 483  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29464

gctaacctta gttcatcgct gttgatccca tgggtttatc ttatactttg ccacattata 60  
tcaccttgac catttataag gccactagtc tcctatggca cctagacttc attcccttag 120  
ttttaacaac tcattagatt ctcaattcac taatacattg gacagaaatg tgtataacct 180  
tttttctttt gtaaactact ctataagggc tcacatcacc tctctattaa gcataatata 240  
ttttacaagc taattacata atatatttaa attggactca tccattcata taacataaat 300  
aaattccaat ctaagaagag gaaataaaga taaaatttat acacttagaa nataaggcat 360  
ataataaata gaaatttata acaaaaactca attcatataa gtcattctcat atacaagtac 420  
atcaacaaaa tattgtcaaa ccaagatatc atagttcaat tactaaacat caccatgtga 480

cat

483

<210> 29465  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29465

tctttcttgt tgatcatagc agattaagga caatgaactc taaagaggga agcgtaatta 60  
tcaagtattg aaagtgattg gttcattcca agggaaacgc atacacaatt ttaaaaagat 120  
tgagttgatg atatcttcgt actcataaac ttgggtgtacg tgattcttcc ttcaccatct 180  
aaagtgtttt tttctttctt taacaatatt agcaccactt atcttgccac tatttttatc 240  
tttcatgctc gaactaaact tctaaccat agactttcac tatgtacatg taaaaattgc 300  
ctctaattaa tcttcttcaa atcactatat atgttactac cattcttca agggttatg 360  
ttctctcacc anatcttttg tcatcttcta tccacacaca cacaaaaata cttgtcatc 420  
tact 424

<210> 29466  
<211> 479  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29466

ttgttacttt agtgtctaataa attaagtaaa tttttttttt tctganattg caatctttca 60  
atttcacatg taacatgtga cttgagtgat taatattaac atttgtttaa ggatcaaaac 120  
cataactaagt ggttaaaatg gctaagaatt ttgggattta tttaaatttt tcttaatttt 180  
agggaatcgt gtgatagtgc ttttaatactt tcaacactaa aagttaaggt gatttaccg 240  
ttgtctctac cttagtccac ttctatcaat gcatgaatta ctttaatttat tataataaca 300  
ctcaatcatt atattatcac ccacattctg gattcataaa aaagaaatca tccacattnt 360  
ggaggcaaaa taacacacat cagaatcagt ggtcagtggt taagttaaag agaaaacatt 420  
tgtacttcga gggtacacta natttagcat ctgataataa cttcggactt tctagcatc 479

<210> 29467  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29467

tcttttctttt attaagcgcn ncgccgtata aacaacatct atatatcggt agtagttcat 60  
 gctcacgtaa ccacaagctg caataatgtg tgaacatgga tagcgaaacg cataatacct 120  
 tccgcattga caatgacgac cattcaagtt tactgaccac ttttgtccgt cacgttgcgt 180  
 tataagggtg aagctctcct ctacttcaaa ccttgtggag tggatatcat acacgcgaac 240  
 gatgtgcgta caagcttgtt cttgattttt cctcagttct ttaacaagct ttgaacaata 300  
 tacttggcct tcatttaact gtctttggct tggcagccac gctcaacaaa gtacttccga 360  
 cacctactgt acgttg 376

<210> 29468  
 <211> 476  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29468

tgtagaggct acaacaagaa agtggctcta gattattatt ttagtaatat agataaattg 60  
 gccatggtaa acaatgacac tatcataagt gtgctgctct attccacaat attgggtttg 120  
 gttttcatga gtgtccaaca gcatcatcat tgtattactt tgcttttaac agaggccaga 180  
 cagctgcttc tgcaattaag ttgacatttg agaataaaat catgtaatgt aattcatgcc 240  
 cctctattca tgtgaatact taaatacacg catgctttgt ttgcaaatca ccgggtagag 300  
 gggtgattan gtagttgttc aaaggctctg gataatatta ttttggactg ttaaaattac 360  
 tacaaatttc tagaatattc ttacatataa tatgtatgaa aatggtagaa taccctagaa 420  
 ctatagttag tatgaatata gtagaacaat ctaanactat aatatgtatg aatatg 476

<210> 29469  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 29469

tagcttatag tttactttac aaatgattcc aacatcttga aagagagcat gaggatctca 60  
 agaaaactaa tcaagctcat ttagatgatt atgttctgga aaccacttca gctggagatc 120  
 tacaagacaa ctctgttatg tatgaggtca atacattatt ggacgaaaat gtatccagtg 180  
 gacgaaagat tcttcttaag gattatcgag acttggacga cagggtgaaa tccttaactt 240  
 caactcgtga agattctgaa gaagagtaca attaaatgct taaacaaaag ctctgatttc 300  
 aaaatgacat aaatcttgct aataatgagc tcgataagtt gaaaaacacg acgcgaagtc 360  
 ttaaatgaac taccacccga gattgaaaac a 391

<210> 29470  
 <211> 493  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29470

tcaacaattg tttaatagag ataaaacaat ntgtacgtat tattattttc atgaatcgnc 60  
 taatagagat aaaacaacaa ccaagccttt tcccactaga gagattgaat aacaaccctt 120  
 gttataaccc agcaagggtc ctaagatatt gctactaact ttccagcaca ttaaccttga 180  
 atgtattgag cttgaatatt taatttaatg gattaanaag gtacttcata tcaccaccaa 240  
 atcagtggct aagacaatcc atcatcaa atctcattaa aaaagaaatc ttgacattaa 300  
 tgaaatggat aaactttcaa tcatatgagc tattcaataa agtatatgtg gttccaaggt 360  
 gctaatatga ctgcgatttg ataattctac gtattgggtg tgattataaa tacatgacaa 420  
 gaaaacacat ttatagaggt gaagccnna ctaaacagaa tataggataa cattcctctc 480  
 acatacagaa tct 493

<210> 29471  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29471

agtggcttat ttataaatct tgtgggtcatc ttctcatgaa tcttatctct ctctcacaca 60  
 cacattcttt atcaatttga tgagtttaaa gatatatctt tttaataaac tntaacaaaa 120



ggatattgtg tatgggtgat tgattagata ttgggttttaa acaaaaaaaaa attgtgatac 180  
 ggtccttgga agcgaaagt tttcaaaatt gtttttattt tgatttattt tcaaaaccaa 240  
 ttcactcccc ccccccccc ctcttttttg tttgtagtt ccatcattaa ttggtatcaa 300  
 agctacatct tgaaagttgc tcaagatcac agtttttcta aaatggactt taaacaaatt 360  
 actttcaaag aggggtgcttc tcttaatcgg ccaccatt 398

<210> 29472  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29472

ntatcaaaca atagtntat ttattgagaa ggcttataat ttatttaaatt cacaattcaa 60  
 cccacattct tatgaaattt gtctttacat ggattcttat tccttctata ttagtaccce 120  
 ttctttgccc accatcaaaa aacatacaaa aaaatacttc ccttatctct ctttgatate 180  
 ttgatttgcg gccaacactt tctcttcttc gttctataaa tgcattctac tgtatctaaa 240  
 tctcatcttt tttttctcta tttgtgatga gcttatatat ctactttct ttattctttg 300  
 cccaaggat ttgtaaaact cttcaaggat tntagatcat actttacctt taacatttct 360  
 tgtcttattc ctagtgtnt gatagcttgt ctaattntca acattattac acccatgcaa 420  
 gagtttaaag catntcttt tattcctaga cttgtcttga acanttttat tccacttcca 480  
 atattc 486

<210> 29473  
 <211> 214  
 <212> DNA  
 <213> Glycine max

<400> 29473

cccaccgccc cgaggagcaaa gcgacgcagc agcaactttt ttcctatggg acaaacacct 60  
 aacgcaaaca ctaagagggc accgaagcga gactcaggaa accgaaagag agagacgatc 120  
 cagcacggag aaaacatgaa tataactgcg aacactcaaa gcatcaaagg aagcgctcaa 180  
 tagagaaaat ggagccaccc agagacaagc gaca 214

<210> 29474  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 29474

gacttgggtgt gtgagcctat atggatacta gacatctaca tacacagtag atgtgatggc 60  
 acgctgagca acggtgacag gactcaaagt gtatggacaa ccaagtgaca tgatgactat 120  
 attaccaatt ttgctagcag agagtgttga atcataggag tgctctctca tctggcattc 180  
 ggcacatctt ctagacctat tctgtgtcat ctacaattaa aacaaactgt tatgacctga 240  
 taagaaatag ttctactgta taccttacia ctactcaac tctatcatga ccctatatat 300  
 aatatgcaga attaccagca cgcatacata taacaccct 339

<210> 29475  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<400> 29475

agcttgtggt ttgttttaat tagaagatat aacttgagaa ggatatcgga gtcacaaaa 60  
 tcatcggtca aacagatgaa gaaaggatat taagaatgga aaaccgaaca cactatttac 120  
 ccattaataa tcgagagtag atatatctgg cttgcgtgct aataaaagct gcctcagctg 180  
 cgaaacatgt gtattattgt gtgtatattt tgagctacaa aaggttttaa catgacgtat 240  
 aaagtaaatt cccgtacgga gtatagaatt ggattttcaa ttatttatta tagctagcag 300  
 acaggcatgt aaacagcccg tagccatcaa taatgaatta ctataagaag aacgagactg 360  
 aattcaaaac aaacgacgct attatgagat aaggcatgat aatgaaatga aggctgctat 420  
 acttaactg 429

<210> 29476  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<400> 29476

tgagagagag acaccttttg gttgcaaaca atgtataata aataagtgtg acacctaaat 60

tccaagcatg caaaggttca acatagaaat aacaaaacta acataaataa ataaaggggg 120  
ggaagagttg aatttcatga atggattaca attaccaatg gtgggggaaa gatcttcaac 180  
agaacttgaa ataaagctga caagtatgct actttttacc accccggaat ctccaatcaa 240  
caagatcttg aaagagagat catagccact gctctgacct gaggatgaac tcattctctc 300  
ttcctctgat gaatgtctta cgtgtgtgtg tcaaaaagta cagtgaaga tacgtatgca 360  
agggtgagag atatatagag gcttatgggtg ttgggctacg gaaggctaac ctgtaacgaa 420  
gacaatgtgg caacccttcc attattgggtg gagagataat actgaagaga gagagata 478

<210> 29477  
<211> 503  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29477

cgacgccgcg cgaacatact ccccgacagaa gaaacttanc cccccccnc cnagcggggt 60  
gtgatcgatg acaccaggca atcgacacgc cccggcgacc agagagcgac cgcagcangc 120  
attattagat gaacaacacg accaacgagg acgagaaacg aagagacgac aagagcccaa 180  
agtcaagagc accgaaagac acctagacga tgacaccaag agcaagacac aagcaggcaa 240  
gaacaccgca agaacaagag aactgcgaaa ccagaacaga aacaacagcc agaccaaaga 300  
acaagagaac aagacaagaa caacacacaa gaccgacaac agagaagact aatcaagaaa 360  
gaggaaaaac gccgcgaagc aacgagagca caggaagtgg ccaaaaacac accaaacagg 420  
gacgcccggc gaccgaaacc aggaagagga ccnataccag gggcgaaaac ggaagaggcc 480  
gaatgacacg agagaacacg ggg 503

<210> 29478  
<211> 286  
<212> DNA  
<213> Glycine max  
<400> 29478

tcgagctcgg acccgggatc cttaatcacc gcggtgcac cttgatttat tggaaggcat 60  
aagacaaggc ttttttcagt tccgttgatg gtgagttata tcacagtcgg gttgagcctt 120  
ccatcgtttg ggcagatcca acaccacctg gtggctcatt cgtcacctca tgcacgactt 180

cctgccatct gcatagatct ttactcttct cctacaacct tgtgtgccgc tttgcgacgc 240  
gtgacatcta tcgcacgagt accttttctt tggcttcagt ctgget 286

<210> 29479  
<211> 507  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29479

cgcggnctt gatctgtcna tgcaccgcac taacaatcac agcttacaga cagacgactg 60  
acagtgactg atagaattcg tgttggtatc tatctagctg aaagtccacg cacaactctc 120  
tttagttggc ctacctcatc acccatctga tgggccgtac gtctgccact agaaccatcc 180  
aattcatctt tgtctggcta tccacacacg ctcgacgaca tacatcatca cgaggcggac 240  
gtcactaca tccatcatag catactgaaa gagagcaata tattcatcat acacatccat 300  
ctatccagag cgggtctagg acagcacacg cgggccacgg agagagaagt agctgacgca 360  
tcacgaagaa gtgaaacact actctgaccc ccacatgcac cgacctatgg gaggagacca 420  
ccaacagtga tggcttcctc cacggcggag acatactact acgctaccgg aaggatggtg 480  
acgtctact cgatgccgtc ttacacn 507

<210> 29480  
<211> 431  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29480

atcttgttca tagctntgtc agagcctact aatcattggt tagtaaaagt tgcaacagtt 60  
actaatgagg ataagttact aagtgaactg attagtcgct accgccacct atgaacaggc 120  
gtgaacacat atttcagacg ctnttttctt ttaatggtca aaacttaaata acaatatctt 180  
gggtgttatt ttgttcttct tcaatcgga tttatgtttt agcttagaaa actgtataat 240  
ttttaaatgc aaacttttat tatactaatt gcagagatag aattccaatt ctaattagta 300  
tttccattaa gagaattatc tgatgatatt tttattattg tcattagtat ttaagttatt 360  
attgtattaa accactaggc aaatcctggt ccatttttgg atccaaatgc aatggganna 420

tattaacgca c

431

<210> 29481  
<211> 488  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29481

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cagtgtggtg ggatatattg ttgcaccatc ttcgtcgggt agagattccg tacttcggat . 120  
gaggtggtga agcacagtac aatgatgaga ggaataattt tgtagtggtt tcatttataa 180  
aaatagaact attttttctc cctttctttt agagagtttg cacaataagg agtattatta 240  
attatgcggc aatgacggtc tccggccttt atcaattttt aagaaaaata attttagctt 300  
ttaacaattg ctttaagaaaa agttttaaaa atatttttaa aactttnttt tcacatatat 360  
ggaacacata tataacaata aaaaattatg cccctcattt aatttacaca atttcttaga 420  
ctntntttat ctntcaacan accacctcac tacaagtgc tctaaataaa ataggtttct 480  
ctttatac 488

<210> 29482  
<211> 413  
<212> DNA  
<213> Glycine max  
  
<400> 29482

tttattcatt tttatgcgta gaaatcctga acaattctta gaattatatt ttagactttc 60  
acctactaga cgctccatt attccattac aactctagg ttatcatgata ttatttttat 120  
gagtgcattc tcttctacct aggagaggaa aggatggacc ttgttgatcc ctttaactcc 180  
atcaattcaa tacttcatct tgattttcttg tgcggcatc tccaagggat tgaatatcat 240  
gcaagtagtt tagaatatgc aaccatgtgg gagcttgggt agaatacatt agtgaattga 300  
agataagcga gagagatgag tatagaagta tgaaattaca gtggatcgag taaatttcaa 360  
gtcagaccta tacactcatt caccaatatc gatgtcacca tccaagtcta ata 413

<210> 29483

<211> 305  
 <212> DNA  
 <213> Glycine max

<400> 29483

gtttctttga acacactacg aacatgctag aaatcaattg tagaattcta attatgtttg 60  
 ggtgtccgat atcaattatt tagagcccca cacagttgca agatgaacaa attacaaacc 120  
 taaattatat agaattgcac attgatgcta agcaccatt gctgtggggt taattattct 180  
 tggaagacgc atacagcatg agagctatct gaactcctcg catcacgcat caaattgggtg 240  
 ccaagcctta catattctaa tgctaaactt caaacaagaa gaaagaaagc cattctctga 300  
 cctct 305

<210> 29484  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29484

catgtctttt tcatccctta gaaaattact agggagctaa cgcgacaacc acgtgcttag 60  
 catgagagct tagaaaacat ttttatgcag aataggctta ggcgagcagg cacgcttagc 120  
 ctaaattctac aattnttcaa acagaggagg atttgagctt agcgtggcaa ggcgcgctta 180  
 gctcaacctc acaaaaacat atcacagggt tagcgagtag gctcgctaag ccttattcca 240  
 caaataggaa aaatagagac gatattgcgc ttagcttagc agccaggctt agtgctgaac 300  
 aataatttga aaaattctaa gtgtctgata tagtagtctc actcaacaca caaacgcgct 360  
 tagcgagttc accattgatg ctacacagaag agatgaatgt tgcataccct aattctccgg 420  
 gaca 424

<210> 29485  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 29485

ctcaagcttg tcgcaagcta gcgctatcag agagtttctc gttatcgoga accctctatg 60  
 tcttaaaaat atggaattgg gctgagcgac ctgctcctaa gcctattctg cgaaaaatgt 120

ctttctggtc aaccgctaaa cgcggttatc gcgcttactc atgagtaaaa tttcataagg 180  
cacgctaagc gcagtcgtcg gctagcgccc accttaattt atttatttct gtttcacttt 240  
aatacatctg ataatcgtgc ttatgatctt ttgtttgaga tggcttccat aaaaaagtac 300  
tgcttcttgc ccagatacgt tgataataag attgatccag atgccggacc gttgtaacat 360  
gcctggcgaa gaccttccaa agat 384

<210> 29486  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29486

atcacctgaa gcattaatcn ttttataatg gcgattncgg natcagctgc tcttattgaa 60  
gaacgatatg cacttcttgc attgtaaatt tgctatatcg tgggtgcaact gttggcattg 120  
tgttccttca acgtagcaa gatgtttttt ggtttcacca tcgactctgt catatcagca 180  
ataattttct tttcatcctt actcaatcgc ccaacgtatg gatgtccaac taaagacttg 240  
gccaatcat gattgtgaat cccacanatc aacttcacca tccaaccttc tctccatgc 300  
actggtttcc cacgaagcct gagaggacac accacagttc tacttccagt gtcttttcta 360  
acgagttctt attcctacac ttgtacgtac cactccgttc acaccaatt aagaacaatg 420  
aacttcttct tctg 434

<210> 29487  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29487

tcatgagtgc gggcttgaga catgaagaga atgttattat gatacacggt gaagcccctc 60  
caaaaatttc agactgggtg cggccatgcc ttcttgattg tcaattggga aactggcaag 120  
tcgtggaatg acccgaagtt tccatggcgg gcacaatgta atgctttagc ttcaacccta 180  
ctactgggcc taggctttaa gggtctctcc ttgttaaggc gttatgtcat tctctagtaa 240  
agaatataat ataaagatct ttccttaatc tggttctgtg ccttcacca ttctcattca 300

tctgcatggt tatttttggg gcatctaaac gatacagatc cgatgatgag tcttgtaaag 360  
gtactaatac cgangaccct gctgtcgatt ntgaacaaga agcgaatcga cctg 414

<210> 29488  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29488

agcttgtctt ttagttttatc gtctattcta tatgcaagta tagatagcca ggccaaaact 60  
gccagattc catctttctc acgaatatgg tcagaacctt tccacaagca caaggaataa 120  
tcacaagata aaaagtttaa aactagggtc taataaagtt gagagttgta ctttgctcct 180  
cttaatgcaa tagcaaacac ataccagtcc caaaactttc ttcaccacag actgaacata 240  
atccagcatc cattaaatta ccaaagaact tccaaccgtg ggggacctgg ttgtgaataa 300  
caattaaata aaataattgc atgtctaana gccatcaaca agtagtttca tacttaaaag 360  
acattgaaga gcaatatacc tcanagaatc tcanattcag atgtttggca acaaca 416

<210> 29489  
<211> 461  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29489

taggtgcca aattagtgcc ggtatgactc caaatgtctt tgtgacttgt gaggacaata 60  
ctctaattaa tattatatgg cctattgcaa cgcataaggt tgttttgta atgattcata 120  
gacgtgcaac aggttcattt gggagaacag tcaacagaaa gaactttgaa aaagataaac 180  
aaaggggcaa aatataaaaag cagttgacct gcataatcca atcacctata ctaactactg 240  
aactttgaca gaaattaaga actggacaac cagtgnnntc gaggtaacta gtttgattag 300  
tttagtttag tttttgatat ctaaaaagta tcaagtataa ttatattggg gattgaaaat 360  
gaacgattta attaagaaaa tagaagttaa gtggaacgtg tatgacaatc gtaatata 420  
gttgatgaaa aatggtaagt aaataagcaa aagtgtcgta t 461



<210> 29490  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29490

cgaacagccg gcacaacagg cgcagaaaga aaccctcccc ccccccccg cgctgtaac 60  
 ccgtgacacc cagccnnacc gccccgggag cgaacagcga ccgcagcacg caagcagggg 120  
 agcatcggca ccccaaaacg aggaggcacg ggaagacagg cggaacggcg cagcaacaac 180  
 aacnagcaag ggggaaacaa cgcgcgacaa aaaaccaagc cagcccagaa gccaccccg 240  
 gaaaaccacc accagggcgga gacgcaggca agggcggaga gcngggagag agcgacgaag 300  
 agcaggacnc gangcgaacc aaagaaccgc aacgcaaggg caacacgggg aggaagcggg 360  
 gacaaaagaa gaaagacgcg ggggcagggc ccgagcaggg agacgacgag aggcgggaag 420  
 acgcgagaac aaaggcgagg gaacacaaca agaggcaaaa acgccggaga gcgc 474

<210> 29491  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29491

tatatgcact gtggcaccat ataagtgaac aaccatcctt tggtgcttat gaatacataa 60  
 caagacgcac cacacaatga gtatgtcaag tcaactctcac taagtaatata cataacgtga 120  
 ccaatcaggg tcaactcgtt tgcgagaatg ctcataccat atgagatcaa cgtacgctta 180  
 aagaagcact cacatcgagt gtctttactc ccaaggccca gacttcgaag aatccgttat 240  
 ggtctcacct tgctgattcg ggtgtaaccc ctacaacaat tnttacaagc agacactgct 300  
 catgaatgat acaataactca tgacctcaca ctcgatgattc aaacacgtat aacacattat 360  
 gatacaattc aacactgggt cctaactatg aacttacact ttctctntaa cactgcgcat 420  
 atacgacttn ttcaatatag aactgagac gagttattgg ataattcac 469

<210> 29492  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29492

agctttcttt tggttcttta tggaggettg atctttgaac ttcaatgagg tcctttaatg 60  
 gtgattttcc accaaggaga tgcagcggaa gacaaaggag aagatggtag aggcggcgcc 120  
 atccactang gaataagcca tggaagaagg agcttcacca ccaagatgag ccttggataa 180  
 gaagcttgaa gaggatgctt caatggagga aaagatagag ggagagaaaag agagaggggg 240  
 gagcacgaaa ttgaaggaag ataaaggag agaagttgaa ctttgagttg tgtctcacia 300  
 gactctcatt catcaaagtt acaacaagtg ttacacatgc ttctatntat agactaggta 360  
 gcttccttga gaagctttct tg 382

<210> 29493  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29493

tctacttatg tggcagggcg ggcttccttc actttcttgt cttactgag agctntgacc 60  
 accactcttt ctttccgaga tgcttctctt tatatccgcc tgagtgggtt tatagcctaa 120  
 accatacttc ccacgatttc ctttggcatt tatcaagcta gttatgccgc cgttgtcttt 180  
 gcctaaaccc attccgggtt cgtaaccgtt ccccaacata actcggggcca tcattactgc 240  
 tgcacgggac aggcaagctt gccagagaa ggagtctacg gaggaatgc ttaccacctc 300  
 anaagactgg aaagcgggtt ctaatgactc ctctacggcc tccacataag gcatagagga 360  
 tgggtagctc accaagatgt cttcttcgcc tgatacgatg accagatgcc cttccactac 420  
 gaatttcaac ttttggtgga gtgtagaggg aacaactccc actgagtgga tccacggggc 480  
 ccccaacag 489

<210> 29494  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29494

agcttgtaat tcatgttcat accacatctt atcacctca ccttgcccgc aatatatacg 60  
catcttnaag agtatatctt cttcattcat angaattgct ttatttacca acatccaagg 120  
ttcatatacc tctttgcttt ttttaattntg atatgaatat ccttcgatat gtcccctgaa 180  
ttcctacaat cacaatcact aattgattta ccttctttgt cattctcttt cagtgcattgt 240  
tgtggtctag ccttcgatcc acttccttta gagcttgcta atttcgagca accaatattg 300  
gctagacaaa ctagtttctc atgacaaaata tcctatcgtg gaccatatnt cttgcataag 360  
aaacanacca agtgtacata aaccttcata tntatggagg aaatatcact ccatgagctt 420  
t 421

<210> 29495  
<211> 493  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29495

ntgtggatnt ggtcttcacc gacaaaagga tcgaagcgtg ttctgaaaag aggcaaattt 60  
gatcatccta ctttgatgag tgagaaagct ggggcaatga agaggatgag aatgagggag 120  
aaacccttgc tatgactgcc attcctacac ggtcaaattt cccatcagcc caacaatgtc 180  
atcgctcaac caatatcggc ctttctcatt acccatcacc caattatcca caaaagccat 240  
ccctaaatca accacaaaac ccacctacca cacaaccaat gctaaacacc accttttagca 300  
ctaaccacaaa caccaaccaa ggaaggaatt ntgcagcana aagcctgtag aattcacccc 360  
aattctgggtg tcatatgcta acttgctccc atatctactt gataatgcaa tggtagccat 420  
aaccnctgct aggtttcctc aacctccant tttcctagga tacgactcga acgcaacatg 480  
tgcatatcat gga 493

<210> 29496  
<211> 436  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29496

agctttttatt atgtggcagg gcgggcttcc ttcaccttct tgtctccaac gcgaactttg 60

accattgttc ttccttcccg caatgcttct tttcatgtct gcctgagtgg gcttatagcc 120  
 taaaccatac ttcccacgat ttccttgagt atttatcagg ctagttatgc cgccgttggt 180  
 ttttctaaa cccatcccg gttcaaaacc gttccccaac ataactcggg ccatcattac 240  
 cgctgcatcg gacagacaag gttgccc aaa gagggagtcc acggaggata tgctgaccac 300  
 ctcanaagac tgganagcag tttctaacga ttcttctgcg gtttccacat aaggcatgga 360  
 ggatgggcag cttactaaga tatcttctc gcctgacacg atgaccaagt gcccctccac 420  
 tacgaatttc agcttt 436

<210> 29497  
 <211> 484  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29497

tatcgtctga ttattcagac atagactcag ctagcatatt ctattaacac attggattca 60  
 agttttaata tttgtattta ttttcattta atcaaaataa ttaggagttt tgatttgtct 120  
 taagacataa atgtcttttg actcaatact tactgaataa aataacatgt gtatatcata 180  
 tacatacatg tgacacactn tanaatatag ttacaaactt tcatttttat aaacgttatc 240  
 aatttangcc cctttcaggt tggttgtag tttccggtt ttggttttaa aatgcaattt 300  
 caaaacggat acgcattgcg ctaaaatggg gctaagttgg attntagttc ttttcaaaac 360  
 aattttcacc tcatttcana aaccaaaaca taggtttatg gcgttttgtt gttggtttac 420  
 cctanacca agagactaac ttctaccttc acgttgctnt ctctcccccc ttcattgtgt 480  
 ctct 484

<210> 29498  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29498

agcttttatg atatgattac actatcaagt ataagccagg gtttgctaatt gttgttgccg 60  
 atgcgttgtc cagactcttc tcgaccgagg tctcctgctt atcattaatt atgcctcatt 120

tcactntttt gcatcaactc cgtcacactt tgttacagga tccccaatat gttgatcttc 180  
 tgcataccat taaattgcgc ccagatgctc actccaacct cgccattcat aaggacctta 240  
 ttttccgaca aggctgtatt tagattccct tcccaacccc ttttactgcc ttactcttag 300  
 aggaatttca ttctttctct ctcggagggtc acacaggggt atcaaaaaact ctccattggt 360  
 tacgacaaat atttgattgg ccacatatac aganagatgt tcgtcgggtac atcgcgcaat 420  
 gtcccacgt 429

<210> 29499  
 <211> 420  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29499

agctttttgt ttcttaanga accactagag aactgctat cactatcaga ctacacacat 60  
 gagtccactt agaggtaaga gatgagatta ttgcaattgg ggtagaatg aacatgtgta 120  
 gggatcttta gaggatcaaa ttgagattta ttttgggatg tttactgtat tgtgattctt 180  
 cctatatgat tatgtgaatt tgtttagca gtttaatcat atgaatataa catattaata 240  
 ttattattgt gtgacatgta tataatgcat gaggcattgat agcgtgttgt cttaggatta 300  
 tgggagtgta ataaactatg tgtaagtggc aagttgagta tgtgttaaata tgtgagatca 360  
 cacatgtgta ttgagatggt gtgtgcattg agttgtgagc tatgaaccat acaatcacat 420

<210> 29500  
 <211> 481  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29500

tgtatttaan aatgttttan aaatactntt aattaatatt tgatttntta ttcctttatt 60  
 aatacatatg tgaggggtag aggggtgcat agtttttgtt agaaatgtca atgggagggga 120  
 tttgagtcg cgacctttgc ctctccctt ctccctttca tccttaagac ccctttccca 180  
 ccctatttgt tagtttttct tagctgcatg ggtaatctac ttgcctccct ttttgtattt 240  
 gccttgctca gcacactcaa ttagctgcac gtctctcctt atttgtgtat cactcaacta 300

caccacacaa attcagcatc attaccaaga agcaacaaaa ttcacccaaa accacaagag 360  
 acccacacca taatccatgt ttgcattnta actntnttgt gaatntgtgc catatggctn 420  
 gtctagtagt gctcctcttg tggctgtaaa gacattgaat ggtgttgatc acattgataa 480  
 t 481

<210> 29501  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29501

atctttanac taganaacaa tgaagcatct cattcatgtg aatgttgtaa taaatttaat 60  
 gaagaaattg tagatttaaa aaaatgctct tcccaaattt actcttggtg aaaataactt 120  
 agatataata ttatgaagac aaagatgtgt ctttgccaag gatggattag agtataatcc 180  
 taaaaatcaa caaaagatgc acaaaaattt ctttgccctc actcaaata atagttctcc 240  
 cttcttaaca tatttttact gtggtaagaa aggtcatagt gcctcaacat gttatattan 300  
 gaagaatgat aataacattg gaaaaatggt atgggttcca aaaggatctt tagtcaaaac 360  
 taacattcaa gaaccaaga aaatttatgt acataaatca agaataattat tatatgattg 420

<210> 29502  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 29502

tagacggaga agaagagacc ttagatggag aagaagaata agagcttaga tggagatcga 60  
 agaagagagc acgagcaaaa tagggctcgc gtctgatata ttttaaaatg taagtccaac 120  
 atcggttttc aataaataaa aaaatcgatg ttaaagttaa catcagtctt ttggacgaaa 180  
 ccgatgttac cttatcatac attggcattg gttttctaaa aaccagatgt taacaaactt 240  
 acgttaacat cagttctgca tatatcgatg ttaacagatg cacattatctt acaattatgc 300  
 caccgcgctt aatatggcga tgttaaactt tgcttttgta ctagtgcttt taaaatagtg 360  
 aagtcataat gtgtctctta tatggcgctt cttttagaat gagcttacct 410

<210> 29503  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29503

gtcttttaaat tttatncaca atggcccaat gaattacaaa atgggtgtcat cgattacaag 60  
 attttggttaa tcggttacca gtgtgtttga acgttgaaat tcaaattcaa ttatgaagag 120  
 ttacatcctt tcacaaaaat tctttgtgta attgattaca atgatttggt aatcgattac 180  
 cagtgataag ttttgaataa aaatcaaaag atgtaactct tccaatgggt ttcaagtttt 240  
 tctaaagggt atgactcttc taatggtttt cttgaccaga catgaagagt ctataaaagc 300  
 aagacctttg acttgaattt agaattcatt cataacaatt atcacaatct ttgaatctct 360  
 ttgaacatct tcttcttcct tttccaaaag ctttctaaag ttntctgggt ttctaaacct 420  
 tgaaaaca 428

<210> 29504  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
  
 <400> 29504

tgggtgatgt tgcgcgtact gatgggtacc atgaggttgt tgctgtgggt tgacccatgc 60  
 gggcggtgaa gagacggcat gggcatctcc ttccttcctt tctgcccttg atgccccgat 120  
 tcttttggcg ttcacgtttg tggaggaaac gtaatcaaac tttcctctct tcaatcccac 180  
 ctgattctt tccccggcaa acaccagatc cgcacagctg gacggcatgt aaccactat 240  
 cttctcatag tagaactctg gcagagtgtc taccatcatg gtgatcatct ctctctcaac 300  
 catgggagga gctacttgtg ccgcctaata cctgcatcgc tgcgcatatt ctttaaattgt 360  
 tggacgctac ttcttgaaca tattctgcag tcgatgacag tccggagcca tatcagaatc 420  
 gtactgatac tgcctta 437

<210> 29505  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29505

ttcttttctt tgcaactaaa tcttgctttc tttagttaat tntataaaca gtattttaca 60  
 tgtatgaatt attttcgaat tataaaaatt tataaattaa aatataaaaa aataatattt 120  
 aaatattttt attattntaa tttacaggta ttttaatttta tcacaatatt ttattataat 180  
 ataaattaat atattattat atataaaaan ttgttcttat tntattatga ttntaaaaaa 240  
 actacataaa ctaacatata gattatntaa taaaattatt ttatgtaagt tatacgaatt 300  
 aagtaaatta aaataacatt tanataatat aagaaattga aaatttatta ttttttataa 360  
 ttaanataag aatttgtatt aatttatatat aaaaataaat ntacatggct cttgtannat 420  
 acataaaat 429

<210> 29506  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29506

tctaccagga ataaatgaag ccgcaactca naattgctct tgcttttagtt attagcttgc 60  
 tttggattca acaatcattt tgtggtagt atagcaattt gccttttaac ttttgacagg 120  
 catgacaata tgttgagtgc tgatattacc aggaataaat gaagccgcaa ctcaatgtg 180  
 acttctagtt gtatatgttt tttgtagtta ccatgatttt agccaggcta taatgataat 240  
 tatcataatt aaagttaatt atgattaaca taattgggtc agtatgtggg agggggtaga 300  
 tgttttaatt tgtgtaagcg tgtgtttttt agctggcaat tgccaaacta taggtaccaa 360  
 anatattnta gctggcatat tattaataag aaaagaatct cagtacaagc tttatatata 420  
 tatctatata taaaactcaa tacaatcata tntctttctt ctaattntat cttgggc 477

<210> 29507  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29507

ttctttttat ccaaggctca tcttggtggt gaagctcctt cttccatggc ttattcctta 60



atggatggcg cctcctctca cctcctttcc tttgtcttcc gctgcatctc catggtggaa 120  
aatcaccatt aaaggacccc attgaagctc anagatccag cctccataga agccccacaa 180  
gcaagcttcc atcaagtggc aatcagagca caagagcttc aagtaggtgc tccttaaacc 240  
tccattaatt tttttgcttt accttctctt ccattgttgt ttcttcattt tttctccatg 300  
tatctctca catgtcttgt gctaaatgtt gttaacatga ttctttaaag tttccaccaa 360  
ttaaacttgc tatagatgct agaaattgat ttctatg 397

<210> 29508  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29508

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aacaattatg acctctccag caacaaatac aaccctggat ggaggaatca ccctaacctc 120  
agatgggtcca gccctcagca acaacaacag cagcctgctc cttccttcca aaatgtagct 180  
ggcccaagca gaccatacat tctccacca atccaacaac agcaacaacc ccagaaacaa 240  
ccaacagttg aggcccttcc acaaccttcc ctggaagaac ttgtgaggca gatgactatg 300  
cagaacatgc agtttcagca agagaccaga gccctcattc agagcttaac caatcagatg 360  
ggacaattgg ctaccaatt gaatcaacaa cagtcccaga attctgacaa gctgctctct 420  
caagctgtcc aaaatcccaa aaatgtcagt gccatttcat tg 462

<210> 29509  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29509

ttctttacat gcaatgtatg aatntaaaaa aaaaaaagta aatactggag tctgactctt 60  
ttacataatc aagttagtga tatctcaaaa aaaaaaagtg agagtataat acacatttat 120  
atatgtcaga gcatgactnt gtctcacaat ataattaatt atactatttt taaaaaatat 180  
atgtaatgct aaattaattt ttataaaatg aaaaaatatt aatttatcaa cttgtgcac 240

atacggaac acacactaat aacttttaaat taattattaa gctctgggta gtatatatgt 300  
 tacactaaag tcatattagg tcttgattga gtcttattag gggccaatgt aattattata 360  
 tttgtataat ctgatataatt atcttttttaa naaatataat atataagatt aaattcta 418

<210> 29510  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29510

taaccgagac tcgcgctcnc ggttaagggg ccagtanact tcttttatca gattcctggg 60  
 ccacatccct gannnncgac ggtgatccac tgcgccagca ccaccagaga gggaggctat 120  
 cacgcagcca ctatgcatac cggggcaaga tttcacccat gccgctgcaa agagacgagt 180  
 gtggatcatg tgtacctaca tgaccctttt tacacagata taaaagacga tgctacaaaa 240  
 gaacattctg cccagcgacc gcaatgccta tctacccta caaaagaatc agaaggctctg 300  
 tgtagaccag acatgggtaa gaatgcatat ggttctactg antaatgata ccaactatag 360  
 attgctggga tcgcacccac aaagaca 387

<210> 29511  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29511

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 cctagccttg caacaagtcc tagggaagta gatacggaga tggacaagaa aatctgcagt 120  
 attgtgagta gcattttgaa agacgcctct gtgcctgaag ctgatgaaga tgtcccaaca 180  
 tcgtccaccc canatgtttc tgtgcctgat gtcaataaag atgttccaac atcttccggc 240  
 ccanatgctg aagtactctc ttccccagc aaagagagat caacagagga agatgatcaa 300  
 gccgcagagg agactcctac accacgggca ccagaacctg ctccaggtga cctcattgac 360  
 ttagaagaag tcgaatccga tgaagaaccc attgcanaca gggtggcacc tggcatt 417

<210> 29512  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29512

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 cattaaccta gggaattaaa aaaaacttaa tggctgagtg taactgaaat tgtggcaacc 120  
 aaaagtcacc cccaacagcc aacaagacag ccaacaagtc agccacaatt tggctctcca 180  
 aaaggctgat gcctaggttg ccagaattat ctctgtggcca taactcccat tttacgcact 240  
 caaattaagt gattcctgag cctaaattga atttcaaac gagacctttc accacgtttt 300  
 ggaatcacct catttggagc ctgtagctt gagttattgc catttctata tttctgtcca 360  
 gccaccactt aacctacgtt ntaccatccc attaatccat tntatgccaa gaaccacctt 420  
 attaagaccc acganattaa ccaccttaat tttcattctt aatcattntc cgcattntcc 480  
 atcaagggtt aatcct 496

<210> 29513  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29513

agcttgtact tatgtaagaa acatcttctt tgaccttggt gatccttgac tccatctcat 60  
 tgaatcgcat gtccacttgt aactccaaag tatcaaacct ttcacaaaca aaggtttgaa 120  
 gaccatcgaa cctgtccaaa atcttttgaa gaagagagga atcttctcca ccatgtaaat 180  
 gtcttcttct atcaatgggt tgagcacctt ttntcaccca agagctatca tgctctttac 240  
 ggtaacccaa ggatgcaatc acaacaacgc ctattagaaa ggatctcttg attggaacat 300  
 aacgtttaga atcaagaggg atgttgaagt gttgaaggaa gagagtgact angtgtggat 360  
 atggcaatgg agcatntaat cgctatgcct tatgaatgcg atat 404

<210> 29514  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29514

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 taaattaaac taagcttcat cctcagatac ctcttggttg actagactta cttacatagc 120  
 ttacgaaagt ttagactaat ttagcctaag ctttttcttc agatccctct tgttggacta 180  
 gacttagacc aaacaacatt attgtaacaa catattttaa accaaaactt aatccgcaa 240  
 tccctcattt aagactaagt ttcaatcctg cttcattcaa gttctaaggc aaaagtacat 300  
 ttcccaatgc taaagtcacc taaccaagca cacaatggg tgatcagacc aagagcatac 360  
 agaatntaag cactaaaaga atcattagac acaagaaaca caatcaatta gatattanag 420  
 taattacatt agttgttctt t 441

<210> 29515  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29515

agcttgtaat ttttatattn gaatatattn gnatgggtcta tttatgtaga tgtttatatt 60  
 ttgataaatg aatagtttta ggtagtgtaa gataataatt ttgtatagtt tagtttgaat 120  
 tottaatggt atatgctaca ttagatttag tttaaactct ttttatgata aattaggaat 180  
 agttttacat actctaagtt attaattgta tatggtagat taggaatagt ttacattggt 240  
 atatgataga ttaggttttag ttgaaattn ttgtataata gattagaaat agtttgaagt 300  
 accgtaactt attaattcta gattagcttt agtttaccat ttntgtccgc cacgttgcgt 360  
 aataggattg aaggtctcct ctacttcaaa ccttggtggag tggatgtcat acacgcgaac 420  
 gatgtgcgaa caa 433

<210> 29516  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29516

atttatttat ccaagaattg cccatgaact ttatgttttg gttcaacttt cccaccagtc 60  
 tttggttaat tttagctctc tggtcggagt atagacgacg gatgatgtcc acagtccacc 120  
 agtctttgtc atctctctgt gcttgctctt tntgacggca aagaaagttg tatatgactc 180  
 tgaatgctag atggacttgg agatggattt tggggagcca taatgacttt ntatgtgaag 240  
 aatttgtatt gttgctgcga ttcttgacct tttttgggt taagattttg gaccattgta 300  
 ttccttccaa ctcttagaaa atcttgctgc tntgactgtg cattgcaatg agccaaggaa 360  
 tggcggagag agtanggaca ttgttgcata gtagtgggta atttgtatga caactgttgt 420  
 tagtagaatg tatatgtgg 439

<210> 29517  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 29517  
 agcttttctt tggtttacac atgactgata catgaattgt gacttgtagg attcaatctg 60  
 ggcacaattg gatgaaagca agagtgggtt tcgatatctg tactctatgc tacatttgc 120  
 tgctaaatgc gcagcagaat tttgtttagt gcaaactaat gcttgtgtat ggctggttgt 180  
 gaataaggta gcacatatgg gagtctgaat atttgctaga cgatcccaac ggtcaaaatg 240  
 tagacttatg cactagggac ttccagtaca tatttcaagt cactccaacg gcgaacgaat 300  
 tggaacgaac gaaatgctac tgggtgtctt aagtgaagaca aagctgcgat tcttggttt 359

<210> 29518  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29518

catgctgngt tgtatacgca gtgtatcaca gtttttttag agactgccaa accgctcagt 60  
 aactagctca acaaggacgc tgtgtacntg ctgatgaat agtgcttgaa cgcattcaac 120  
 actatataga ccagcctagt gtctactacc gtcattacaa caccagattg gagccaagaa 180  
 tttgagctca tgtgtgatgc aagtgattat gttgtaagcg ctgtattggg ccacaggaag 240  
 ggtagagttt tccatgctat ctattatgcc aataaagatt taaatgatgc tcaattgaat 300

tatggcacca tatataagga aatgctcagc cttgtctatg ctctggagaa ctcagatcat 360  
acttaggtga tcaaagttat tgttacactg ac 392

<210> 29519  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29519

agctttttgt ttgattccat attcagacca cattagtatt tcgaaagttg ttctttttatc 60  
aagtccatgc aaaaatatct aagttcattt ggtattcggg aaaggccttc attattttca 120  
tcctcaatat ttttttcaaa aaaaaccatt tgtcatgttc tgatccaaaa atatatataa 180  
caaaaaaact ggttggtgat tctttccaaa gcatgtcatg ttcaagaaag attttttgtt 240  
taagtcccaa aaagagttat aatctacaac tacaccatca gaatatcaaa gcatgcataa 300  
attaatcaga ataatctcgc gtaagttttt attcaaaaaa ttcagatcaa agtaataaag 360  
tactgatatc taatacgaag cgatgaataa acatatagac aagttctcaa atttcanatg 420  
atcatggcta aggaactca 439

<210> 29520  
<211> 294  
<212> DNA  
<213> Glycine max  
<400> 29520

ctcgcagagc tcttgatgta tcttgaactc gttcgttgat tgacccatga gacctttggc 60  
atgaccctag ccatcatcaa aacatcattg aatcaatctt aaatgatcat gaagctgtgc 120  
tcttacagac gtggttgacg atccttagcc gatgtccagt catgcttact aactcatact 180  
atccgtgact ctaatacttg agctcctatc ttagataagc tgcatgcttg agagaagtga 240  
gacgagattg tgatgctggc gacagatagc gtacaggatg tcacgacatc acgc 294

<210> 29521  
<211> 469  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29521

ggcatgcaat gtcttttata tactnnntgt acaagaaatg gaaaagctct gatacnncac 60  
ttggttagaa aacaagtggc cctcagaata ttcttanaga aaggggnngg ttgaattana 120  
gaatanntca caaacttatt ccctttaatt aaaaattctt aatttgattt ntaacccaaa 180  
tcctaagatt ccttttaaaa tgaattccta aataattatt caaattaaac ttactgaata 240  
gaagcaataa gcaataataa ataaaagagt ttaagggag agaaagtgca aactcagttt 300  
tatactagtt cggccacacc cttgtgcata cgtccagtcc ccatgcaacc cgcttgagag 360  
ttccactcaa tcgcaaaaac cctttacaag ttctgaacca cacaaggaca acccttcctt 420  
tgtgttcaga tttctttaca acaagagacc ctcggtctct taatccctt 469

<210> 29522  
<211> 447  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29522

ntaacatcaa gtttagtaat gatccactaa cctagaattt taagaactta atgccactaa 60  
cctaggggaac taaaagaact taatggctga gtataactga aattgtggca accaaaagtc 120  
accccaaaca accatcaagt cagctaccat ttggtctccc aaaaggctga tgcctaggtt 180  
gccaatggg cccttattac aactttaact aaatcaaact aaagtcgttt tagttgatta 240  
acaaaaaaca tatttttttg gtcagccaac ttacaagga ttggaccatt atttagacaa 300  
actaaacact ctaaaattga gacagagtgg tgccatttag tcctcctcca tttgagccat 360  
gatacaactc acaaccttgg acttttctcc ttgaaacttg agcttgtatt caaatagtgt 420  
ggacaacact tgttgaagaa gcttctt 447

<210> 29523  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29523

agtcttttca tataaataat aaaatcatct cggctcaaac aaggtcgtcc aagacttcat 60





attgcccaaa accaagcttg gctaactctg acccaaccog ggcatagtca gtcagtgaga 180  
 acctgcgacg tacctatgca ggcgagctcc tgacagtcaa ccaataaaag aacaaagtcc 240  
 acaaatcaag gaggcttgtg tggcggtctg ccagctatgt atcttgagtg gtatctggaa 300  
 tttagcctct agtaatcgat taccattcat gggtaatcga ttacaaggct taaaaatgga 360  
 gataggatgt taaatggttt ctggtaatcg attaccaatt gtgtgtaatc gattacat 418

<210> 29526  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29526

ccaagtttct ataaataggg ggagaagtga ttgtgatata gggttcggcc cctgagacac 60  
 ttctctctct ttcgaatttg cttggaaaaa ttgtttccgt gaagaaaatc taagccgagg 120  
 cgcttctaaa acgtttccgt aacgtttccg taaggaattt tgcgaagggt tcgaccattc 180  
 ttgcagcttc ttcattcttt cttcatcggt cttcgatctt caacgggtaa gtacctcgaa 240  
 ccaagctttt tgattcattc tatgtaccog tgggtgtcca cattgtgttt cgtgtattct 300  
 tattctcggt tcatttactt tgtatacccc cttttgacgt gcttacagca ttntatctaa 360  
 gtcatttctc gcttaaccta caactacaac acatatccac cgatcggtcg aattgtatta 420  
 tct 423

<210> 29527  
 <211> 436  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29527

agctttcttg atanaattcc taaagaagct agagcttagc tacacacacc tctctaatag 60  
 ctaagctcac ctcttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120  
 aagctcacc ccatgacaaa atacatgaaa atacaaaaaa gtcctacta caaagactac 180  
 tcaaaatgcc tcgaaatata aggctaaaac cctatactac tagaatggcc gaaatacaag 240  
 gcctaaacaa aggtaaaatc tattctaata ttacaaaaga taagcaggct catacttagc 300

ccatgggctc gaaatctacc ttaaggctca tgagaaccct agggccttcc cttggatctc 360  
 tggcccaatc tacttggagt cttctatcca atgcccttgc gggatatgat tgtatcattc 420  
 ctcccttctt ctcat 436

<210> 29528  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29528

tcaagcnttt aataagccat atgaataaga attaaatgat ctaattcaat attaacatat 60  
 gttttttttt tcctttgaac ttatccaaca tagtggctct gattntgtaa gcactttgtg 120  
 tttgtgtttc tgttcatatt aatgaagttt ggcttgtgct ttttctcaag ttactattat 180  
 agattaatth atcaggatta tggccaatth taattcttga aaggcatttc atggttttat 240  
 ctgttcttga attagtcaaa gacgcttcaa cagtaccatt tttttgtcct tttcatatct 300  
 atgatgaatc ttcctagttt ttttcttttt ggagtgtgaa acctgaatat tntgtgctaa 360  
 atagtaaata gtaaatagta aatatggngg tgcaatctca ttacttaaata aaaatctt 418

<210> 29529  
 <211> 454  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29529

actcagcttg ctggtttagc aacttgcagc catcattttc tttgtggaga atgggtattg 60  
 gagctggctt ccttctggtt aattatagcc tgatagtttc taactacagc aatattccta 120  
 attgcatttg attctttatc tgactataat ttgagtaaata cctaaaatgg ttatctttta 180  
 tgttttcagg ggtgaccatg tcaaattagt gagggctgga aagcatcagg tctgatcgca 240  
 cacctttccc ttgtaaaagg tttttttttt tcatgaagac attgtttcat ttaaagttat 300  
 gctacagggtg gttnttcttg taaaaggacc aatttacttg gtctgcatca gctgcacaga 360  
 agagccttat gagtcactaa gggggcagtt ggagcttatt tatggccagg tataatcggg 420  
 ttggatgctt gtatgtccca atanaaaaaa tgga 454

<210> 29530  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29530

atcnttttctt acctatctat ctcccaaagt tctttgcaaa gattcaatgg ataaaaaaca 60  
 tgaagttcta attcaagatg ttttctttgt tgcattgggca taatgcaatc actctatgtc 120  
 tagcaatgat tttattaaga tgccctacc tttgagttct actaaaaatt atcctctctc 180  
 gagcgactaa tccctaaaac tgatgcatat aaaccttca atgtatttct actaaggatt 240  
 accctctttc aagcgccaaa cccctaaaga tgatgcaagg atgaagcata taatacattt 300  
 gttggca 307

<210> 29531  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29531

ttactcttcg taaagccgcy accactcaca ataaattgac cctcatgtga tgcttnggcc 60  
 gacctaatac agccattgag aatcgcgta ttactatcat acatctcaga gagagagaca 120  
 atgaagcatc gtgacacata gcacgaccaa gcatacaact aacacatgcc ttccgtagcc 180  
 aaccaaggtt gccatggagt catacttggg gaactctatc tacttcatca cacatatata 240  
 tatacatggt ggaacaatgt g 261

<210> 29532  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29532

natttctttc tccctatntt cctataaata gggggagaag tgaaggaaaa aaatgttgag 60  
 ccctcctggt aattcgagat cacttgatat tagtgaaaaa aattgtttcc gtgaagaaaa 120

tcgaaaccga ggcgcttccg taatgtttcc gtgggtgatt tcgcgaagat tttcaactgt 180  
tcttcgacgt tcttcgttcg ttcttcgtcg ctcttcagtc ttcaaccggt aagttcccga 240  
aatcaagctt ttcaattcat tctatgtacc cttagtggtc ctcatcgtc ttcacgtgct 300  
attattttca tattatatac tttgcgtacc cccttctgac atgctttagt catttac 357

<210> 29533  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 29533

acgaaggata cggaacttag aaaaactaaa tccttaatgt aaggagtacg agacaaccat 60  
agcgaattat taaacaaaat cggtagttta ctttaaggta ttccagaaac taccataact 120  
tctgaacata catgcaaaat ggtaacaata agtacctcca atttaataaa tggtattaat 180  
gaagatattg accaaaactg agaaaatgca actgagatat gatcagtatc agaaaagaat 240  
ataaatccaa ttaattccca cacaggaaaa accctctaaa tatatatcaa cgtcaactgt 300  
cctaccttct ataaagaaga aggaatcaat ttaagagtta gtgcaacaac attatagtgg 360  
acatgatgcc agaggagata catcatgata cctc 394

<210> 29534  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29534

agcttggttat tgactcattn tcttgaagga agaaagttcc ttgagtggat gttgaagatg 60  
aaaggaaggt ggggtggatgg ggaagcttgt tgtggaaaag aaattctaaa attttagtgt 120  
gtgctacaaa gtgtttcatt atcatgagag aaacaaggga ggaatttttc gctaggtgtg 180  
ttgttttaag agagataatg agtttaatag aaagaaacaa aatgacatca tgtggattat 240  
ttcgtggcat aattaagctt attataatat agtaaaccac ttagcaagt gttaattgtg 300  
agaaggggga gacatgcaat cagctagagc aaaggctcct ctgctcaagt ctctaactct 360  
gaagatctct atgcaaaata gtgttttaca actcanatca nactaatnga tttgatcagt 420  
ttaagcgaca act 433

<210> 29535  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29535

tgccncaaga tgaaggtttc ttgtggacga gggcatgctt gtattgttcg atcatgcat 60  
 tcanaacttc cgtttgtcca tctgtttgtg gatgataagc tgagctcatc cgcaatttca 120  
 tgtcgctcat ctgaaacagg tcttgccaga aaattgctta tgaataatgg gtctctgtcg 180  
 gagatcaagc tgcgtggcat gccatgaagc tttctgacga tgtccatgaa caggatgacg 240  
 actgagtaag ctgagtgtcg agttggcagc atgcctaggt gtatgccttt tgaaaatcga 300  
 tctactacaa ccaatatggc agtatttctg tgaatcggag gtaggcctgt gatgaggtct 360  
 aagggaaagt cctcccatgg ccgacagggt accgataatg gacataagag accggcagac 420  
 ttcttagtct catacttagt gtgttggcag tcgacacagg ttgctacaaa acattntaca 480  
 tcttttct 488

<210> 29536  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29536

tcaactgacc cggatcctta agtcacctgc ngcatgcagc ttattttgcc atctatggtc 60  
 ttaaacaatgc ncttagagcc tggtttgata aactcaaggt gcacttctga agtttgaatg 120  
 taagtccagc aagtgtgatc cctctttatt tgtctactcc aaagggtcct caacaaccta 180  
 tatgcttggt tatgtagatg atatcatcat aacagggat aatccttctt taatcaagca 240  
 actcatctct aagctaaata ctttnttctt tcttaaagat cttggttctc tagactatct 300  
 cttngnaatt gaggtaaaac atcaatctga tggatctatt gttctcactc aaggaaaata 360  
 cattagagac ttgctggcct anactaatat gacagaagca aaacctatnt cttcacctat 420  
 ggttactgga tgtaagctaa ctaanagtgg atctgatcca ctcaactgac cat 473

[illegible][illegible][illegible][illegible][illegible][illegible][illegible]

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29539

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 ctagggaaaag caaggcaccc aaatctaatt gcattgaaag gatactattg gactcctcaa 120  
 ttacagcttt tagtgaccga gtttgcccca aatggtagct tgcaagccaa gctacatgaa 180  
 aggcttcctt caagtccctc tctttcttgg gctataaggt tcaaaatctt gcttggaaca 240  
 gcaaaggggc ttgctcattt gcaccactct ntccgtccgc cgatcatcca ctacaacata 300  
 aagccaagta acattntgct tgacgaaaat tacaatgcca agatctcgga tttcggggttg 360  
 gctcggcttc tgacaaagct ggacaggcat gtgatgagca acaggtttca gagtgcatta 420  
 ngatatgt 428

<210> 29540  
 <211> 342  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29540

gcatccatta tccatagnga gaacacagat gtgtagacta ggatgggttg tggttgaacc 60  
 aaacaaatac tgtgctaagg actgcagaaa caactatctg ttcttattag gttaatatct 120  
 gatatgtgaa ccattgggtc acacgatact aaattaatgt tttgagggga ggatccacta 180  
 cagtagcttg ctaagttgct actgaagccc ttatgtgttg ctcatgcgtt gcactactac 240  
 atgggcttgg acacccgact aaaccagttt ctaagttttt atttgagca tgatgctagc 300  
 aacatacgac tattatagtt aaattacaga attatttcat ta 342

<210> 29541  
 <211> 345  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29541

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atgaaaaaaaa acaaatgacg ttgagtccta ttgtcatacc ctgatttcgt ctgaggattg 120  
 tcatttccta aaattntcaa ccttgctagc cgaattcagt tgcttgcgct acttgccatg 180  
 caatacaaaa ggtttttttaa cgtttatgaa aagaacatga aaatacccaa aggggagggc 240  
 aaaaggggtca ttttaagact ttttcaaacc cctggctcgc ccaagctagc ctctgggtca 300  
 cttggggccat cgagataact tcatggtgaa gtaattagcc cgcct 345

<210> 29542  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<400> 29542

gggtcaggaa gcacaacttc agtcaagcat ttcaagtatt atggatcctt atgctatagg 60  
 catgttcttg ataagaggag aaagaagttg gatgacaaga gtgagccaat gatttttggt 120  
 ggatacaact ctactgggtc atacaaacta tacaatccaa agaatcaaca agttctatct 180  
 agtagagatg tctactttga tgaattaagc tcatggggag agtttcaacc tacttctgag 240  
 acaatacaga agattcatct tgaattgaaa aatgatgatc cagtaggaga gatacatcaa 300  
 gaagtgggtca ataacgaacc ttagatgggtg gttgatagac ctacaagagc caaaagtttt 360  
 cccttaagac tcagagatta tcagggtttac cctgatagtg caattactga ggatgggtgat 420  
 ttgggtcagca tatggcactt atggcagaca tggaacctat tacttttg 468

<210> 29543  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29543

atcttttaag tccaagtttc ttctgccata cccagtgat ttctttggat agataataga 60  
 taacattntg atttgacagt tactaagat tataacaagg tcatgtcttt gcaattttga 120  
 gattaacctc aagcttgaaa gtccaagttt cttctgccat atcccagtga tttcttttga 180  
 tagataatag ataacattnt gatttgacag ttactaaga ttaattcttat aaagatttcc 240  
 ttttctctta gtgggtgaaaa gttgggtccc atttttgtct tggacgacac acccatcatt 300  
 gccaaaggaa atatcaagtc gactatcaca naattgactt atactaagca gattgtgttt 360



aagtcctttg aanaatagta cattctccat gggaagatag ggatcaatac ttatctttcc 420  
tactccatca atct 434

<210> 29544  
<211> 475  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29544

taaccattaa gcacaagcca tacacaagac ttaacactat taattacatt taaccactaa 60  
gcagaacccg ccattatgaa acctggcttg ctaggaaaac aaaggggtgca aatattttga 120  
acaattatga aaaggatgag aggtttgcta ggaagcccga taattagaaa atcctgcat 180  
tcatttaaata catctgctga tatagacaag catgcagaat catgttaaac gtttttcttg 240  
tgatttggtt ttgatagttt ttatttctaa atacttatta aacatcatgt acaaaaaaaaa 300  
tgtggcatgg accaggattt ctagagttgc attctaataa aacatataac agtacatana 360  
ggatagagga tcatccatcc tctcttctgt cccgctttga aggctacatg gagcacatgg 420  
aattcatctt gtcaatatag ggatattnta gtgtcaagca agcctcaagt agcac 475

<210> 29545  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29545

tgctttataa ttngattntg nttgagttgt gatgaaactg gtaagttgtg atgaaactgg 60  
taatattgat gataaaatat aatattataa cttgatagcg ctaatatgta attataacct 120  
acaagtgtct gatattctaat ctattaactg tatatatgaa taagttattt aatttttttg 180  
gaaaaaaata aaacaaactt gtttaataat taatttaaata aatttcttat caaatgtaaa 240  
ggtgcttctt attaataaat atattagaaa agatatatat tatatggtct taatatttat 300  
ataatattaa aatgttaaac tcacttaaaa ttgtataaat atttatatcc tanatatatn 360  
tataattata tccatgttac tctacatanc aaaatattta tttttattat atntttaagc 420  
tctttaatta tta 433

<210> 29546  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29546

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 cacttgagct tgcatttgaa gattgtggc gttggagcat ttaatgcttt cattaaatgc 120  
 acatactttt tcatgttgaa aaatcactct ttnttacttt cgtgtggaat acttcaacaa 180  
 aaatcacttc ctttgtgtta gagtaggtct gtcacagtag agcacatctt ttgatgatgt 240  
 ttggcaactt ccaggtcttg agcttcattt tttctttata ggatccgaca caaatccttg 300  
 gagaattntt tttctacaaa acgaatctca nacatagatc aacaaatgaa gtttaaattg 360  
 catcggtact gttgtatcag atcttggctt ggttctaaact atcgcttgaa atgannacac 420  
 ggatgcatga gccacgtca natatcacat aagatgtaac ttttaacctt tgcacttagt 480

<210> 29547  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29547

agtctttatt ctttagaaga gaaagaacat gtaattagga ttacgactga naatgctagt 60  
 caatttgta gattgattgt gaaggaatgc tttaaccgta actcggtgag ggtgtgatct 120  
 taattgtgag agaaacgact aaaattaggt aatgaatttt gcatgaatct ctgaattatg 180  
 gaatgaatgc atgaatctga ggatgatgaa ggtcatgttt gattgtaaat agccacttag 240  
 ccaaaaagct gaccatgtgc atgaatgatt tatcccttgc acccagtttg agttgaatta 300  
 atgtttgatt gattgaacct tgagcctgca cagttatctc atgctacctt gtcttangtt 360  
 gtangaaagc atcattcgta gaaagacttg gttcaaggca naatttgccc cannattggg 420  
 agagctact 429

<210> 29548  
 <211> 475

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29548  
  
 tgtctcggaa atattgggtc taatatggta ctaattgttt atttatgggc ttgtacagat 60  
 ccaaaaaatt tgttttagtg agacaataat ttttttatca atggcaataa aaacaccaca 120  
 acaactatca tttatataga tagatagata aatatatacc caaatattgt tattgatcca 180  
 taataaattt ttcttcattt ttgttccttg atatttgaca tggtttttta aattgtagtc 240  
 attagttaag tgatgacatg tcactactaa aaaatagggt ttcaacattg gttattaagg 300  
 actttccaca tcggttatta accgatgatg aaagtaccaa cgttgaaagt aatatcgta 360  
 acatcgattn tccaaaaccg atattaatat aaaattacaa catcggttat tgaaataact 420  
 gatgttatat aataagaatt ataaaaanaaa gtaatatatc ttcatatcaa catcg 475

<210> 29549  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29549  
  
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 gtgttgagtt ggccttggt taggtatgta cagaaacata tctctctcat ttcagggtat 120  
 gaatgcccc gcttctgtag atcttgctta agtcaaaatt ctatcacatg gacaaatgtg 180  
 catttcttct cactgtcttg cagacaagat tacctcgcta atattgggta aaacgttcat 240  
 taccggttcc atgaccttaa gtatggcttt cccatttggt catgtattga agaattctga 300  
 cgtggcaagc tcatccatgc catatcatca ggcaccaggc cactangtgc ttcacgtcca 360  
 gtgaagtaat ctaatggacg agaagccggt ggtgcaaccg tggtcacct tgggtgtacct 420  
 gcatctacta atc 433

<210> 29550  
 <211> 476  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations

<400> 29550

tgtaattgat aaaagacaga aatgatgcag agttgatatt attgagcttc gngtgtgtgt 60  
ttacctttct tagcttttca ttggagagtc atcaaccttc aggcctttctc ttgctagtag 120  
cattcttcat gaagtctctt gtatgttatg catagactca ttctatttca tgacttattc 180  
tagactgagg acctcaattt atcacatttt gttaggggtc agtcagaaac tagtacgata 240  
ggctatgaat tctttgttaa taattntagt cttatttcta ctgagcttcg agcttgtact 300  
agtaatacta cagcacttan atagtanaac taagagcatt atgctacacn cctattatc 360  
agntatcatg ttatctatag tctataactca atactgttgg tacctggctt ttacttcttg 420  
ctctaactct tatgaccac aatgggaaag atgtcaatnt ctttaatacag cacaac 476

<210> 29551

<211> 358

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29551

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aagaaactac tgtgtaagat tttctttttt tccttggttag tgttcttgat ttgtgaatct 120  
cacttaaatt ttgagcttaa tatgtggcat gcattgtgaa tcacattttt aatctttatc 180  
agctaagttg agttgtttat gtatgttgta gggcctttca aggagaaacg aagcaatgag 240  
cttaaattct aatagctcan aatcacatat aattntcaca tttgtcattg agtctttgtg 300  
taaggtactg tcacaatttg taattctacc taacattacc agcagntgtg tatggaaa 358

<210> 29552

<211> 474

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29552

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tcttaagaca gcaatgtaaa gatgtacggt atgataatag caaggcaa at tgaaatagaa 120  
tatgtatatt gttatttcat tgatcctttg catgatatat ataatacatg tacaagaatg 180

ttctatacca attctaaggc atgacagacg tgatccataa tcagtggcat ctgattttatt 240  
 ctatgcatta taaggtaaatt aaatatagaa tcaaggtaac ataggaaagt aaatatatac 300  
 acagcatatt tgcaatcatg tagaagatat ttctaatac tcccnctcaa gttggtgagt 360  
 gaatatcgtg aagtcccaac ttgttgcgca atgtcacaaa ttgatctttt cccanagctt 420  
 ttgtaaacac atctgctagc tagaaatfff gtggcacata agaaggattg atca 474

<210> 29553  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29553

tcattcnttg cgcgcaatca tgcttcaact tacacagagt aattaatgct tagcgcaaca 60  
 ggcgcactaa ggcgacttct aagaattcaa aaacagtaaa agattggcgc ttagcacatc 120  
 ctgtggctaa gcccaactat gaaagctcaa ttccagaatg gatttggggc ttaactcang 180  
 gcagcgtgct tagcgctact acaataaatt tttccattga agaagtggcg cttagcgcat 240  
 catcttgcgt aagcccactg cttgaagttt acttccagtg aagatgttgg gcttagcgca 300  
 gtgatgtgtg cttagctgaa ctattcaacc aactaatcaa aggtctaagt gcttagcgtg 360  
 agcaagctc 369

<210> 29554  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29554

caagaatcaa gccagacta ttgtgcaagc catccatggg gcacaacaca cccaatgatt 60  
 atgatgatgg atgggtcaaa ttctcacaaa aggtaactca tcactttcaa attgagcttt 120  
 caaaactatc atgacatgta gaggagaatc aaggatttca agtcacaaaa tgtcaagaac 180  
 ttttattttc aaaacacata cccattttctt gaacatatcc tataattcag agaanaacat 240  
 gcaaagtcgt acatgcacan caaattgacc caaaatatta aactanaaat ccgacgaaac 300  
 taacaacatt aacagattaa cacaactaac anattaacan aaccaacata actagccaaa 360

catagaaaca ctccccata cttaacaaca cat

393

<210> 29555  
<211> 388  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29555

agcttgccctt cttgagggtcc aggacagaca aggcagccga aggaactant tccgctccgg 60  
agtatgacag tcaccgctnt aggagctgct gttacaccag cacgcgcttt ctaggccatt 120  
aagggatggt cgtttctctg ggagcgacgc gtccagctca gggatgacga atatactgat 180  
ttccacgatg aaatagggca ccggcggcgg gcatcactgg ttactcccat ggccaagttt 240  
gatccagaaa tagtctcttg agttttatgc caatgcttgg ccaacacatg aggggtgtgcg 300  
tgacatgaga tcctgcgtaa ggtgtcagcg gatcccgttt gatgcccacg ctatccgccca 360  
actcctaaga tatccgttgt gttggaag 388

<210> 29556  
<211> 344  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29556

gttgacagaa caactgagca gaatggaaga gaatatgttg acaatctatt gatcaatata 60  
aggagaagat gaacctagct gctagtcata tgcagaggct ggaggatgaa catacgaatg 120  
tatcagctct gcanattgaa agggaagcaa gagagagggt gatngaata tttcacgagg 180  
aagctatgaa atggatgaat aggttcgctc tcaactctgaa tgggagtcaa gagctcccaa 240  
ggttgttagc cagagccaat gcaatggccg acgcgtactc ggctccagat gaagttcatg 300  
gtcttttcat tactgccaat acatggttga actaatgacc caca 344

<210> 29557  
<211> 567  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29557

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 cccccccct gagtgacgct tgatactatg gaacactccn gcnnccgcacc cgggggtcctc 120  
 tacagtccat ctacacgcac tctaacatag ctgttttggg atttattcgg cgacacgatac 180  
 caaccggagc taatatgacg catatctgat catcttgctg tgatcaaagc aaataacaaa 240  
 actgcggggcc tatgaacagg gtgacgatga tggagaatcc tgcgttgctg ctagccatcc 300  
 aatacagcca tgtatcctac cagcccagca atgtcgtaac tcacgccata acaaaccttc 360  
 tccgtaccca ccgcccagat agtcgaacag gccatcccta agatcaccca cacagcctac 420  
 ctacacaact ctcaatgaca aacaccgctg gtacgccaga ccacacatca accaagaaat 480  
 gaatctccta tgagaaacct taaataaacc cccatccaga gcttatctga cttagccctc 540  
 aaatattgaa agtcacggaa ccctccg 567

<210> 29558  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<400> 29558

tacattctcc cactttctca agcaaattct taattcttct tgatatcatc aaaatcttca 60  
 tgatttacia atatgtttta taacagctac taatatttga attcgatatt ctagactgtg 120  
 taatcgatta cacaattttg gtaatcgatt accagcagtt aataaacggt ttaattcaaa 180  
 ttttaaaagc tgtaatcgat tacacaattc ctgtaatcga ttactagaca ggattttcag 240  
 aaaaatatatt ctaagagtca caacttttca aaggctttat tcatgactac caatgatcta 300  
 tatatatgtg acttataaca cgaaattgct cagaagtttt cagaacaaca agtgttttatc 360  
 ctctcaaaga gcaaatcat tttatcctct taagaattcc ttggccaatt caatcgcaat 420  
 tcattaatga attatttgag tgetcaatct gtaaatcta tc 462

<210> 29559  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29559





tataaattac attgtaatta aaattttattc tagataaata ttaataattt aaattatgat 240  
 antaaattat ttttaattggt taatttagag atcgataaag atataagaga gacacataaa 300  
 ataagagtac tctaatatgg ctaatagaga aagcttttgg ctagctagct aagcacatgg 360  
 tatgtaaata tacatttaaa gatatgaaga tcacataaag agaaa 405

<210> 29562  
 <211> 468  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29562

gtagaacttg tccactcnct tccttccaca tctgaaagag tgtgaagggt ttattttccc 60  
 atatgtgata agttctcatg tgtgagccaa gctgcttaaa atcttaagggt tttattttcc 120  
 ctanaatgag agagatcccc acatataagg agaataacga tgagtgttag tcattcctct 180  
 atccaacttt ctagcaatat aacattatga ggagtgtctac gaacacactc tctaccaatg 240  
 aacctataac gaataccttc aacatgtctc ttaggcatca tgggtccgaat aataggattt 300  
 tgcacaagat ctttggatga agaaagaccc tacatgtgct gtgtccact tattgaatct 360  
 tgtacgttca tgggatgtta cggtgtntaa ctatggctgc tgggtgatga gggactcga 420  
 catcctttat tggcttaatg gctcgcttct tggccgaata ttatatca 468

<210> 29563  
 <211> 256  
 <212> DNA  
 <213> Glycine max  
 <400> 29563

agctcgctc attgaggttc aggatggaca atgcggccga atgaactagt tccgccccgg 60  
 agtacaactg tcaccgtttt atgagcgatg gcaccgagca cgcttccaag ctatcaagg 120  
 atgggtctgtt tctgcggtta cggcgcggtgc acctcacgga cgacgagcat actgactttc 180  
 atgaggataa aagacgcccg cgggtgggcac cactgagtac tcctatgggc acatttgatc 240  
 cagaaatact tcttga 256

<210> 29564  
 <211> 445

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29564

tctagccaaa gatagaggga gagaaagaga gaggggggag cacgtaattg aaggaagaaa 60  
 aaggagagaga agttgaactt tgagttgtgt ctcaacagac tctcattcat caaagttaca 120  
 acaagtgtta cacatgcttc tatttataga ctaagtagct tccttgagaa gctttcttaa 180  
 gaaaacttcc ttgagaagct tctttgagaa aacttccttg agaagataga gcttagctac 240  
 acacccatct aaaaactaag ctacacctct tgagaagctt ccttgagaag caagagctta 300  
 gctacacaca cccatctaan aactaagctc acctccttga ctaaatacat gaaaaaacia 360  
 aaaagaagtc cctactacia agactactca aaatgccctg aaatacaagg ctaaaatact 420  
 atactactag aatggtcaaa ataca 445

<210> 29565  
 <211> 357  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29565

cagctcggac ccgggatcct ctcaagtcacc tgccgcatgc atcttgagct tttgcatang 60  
 gggttcgatgt ggagtagcaa tgtgtgcacg tatcatgggt caacgagagt tgggtgatggg 120  
 cttgggcttg tcatggatac gtgaactggg ccattcctcg gaatgcaccc aataacgcaa 180  
 ctacttttgg acaagcctaa gtttgtgctt tgttttatat taaaatcatc ttgatggagc 240  
 taatttttgc ttgttgttct ggtgctttta tgataaaact aaattgatta attgaatgac 300  
 attgcaggta aagttctata atgcatccaa tatacctgtc attcatatat tgaaatt 357

<210> 29566  
 <211> 453  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29566

nggcagatat agtctagata gcactcgggt attgaacact gcttttgttg catctacatg 60

tagaagaaca caagacgtta gcagctgaat aagaataatt aaacaaaaga atgagaggga 120  
 atgcagtggc taaaatacat aacactatgc ctgtaaaca ttaaaagtta tgatataaaa 180  
 gtacatgtta ctcttacaga tcaaaattta gattatatcc tccacaccag acttacatct 240  
 atatatgatg gatacccatt agtaagtga gtaagttggt ntaacaaata atgcatgttg 300  
 cctactaatc ttgtcatttg tgagagaact gtggcctttg ggcattggga agttcaaaca 360  
 ctcaaagttc tacaagttta tatctcttat cctttctgat aagatacgat gtttctatta 420  
 atatactnta gcaacacaaa gacattcata tac 453

<210> 29567  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<400> 29567  
 ctactatgta ttctacacat gtcttctttg tccattgata ttctgaacta tgaaatcttg 60  
 actctcggt atggtttatt tctaaaattg gatttcatat ttgcaaaaaca aacaaggcta 120  
 aaatgttatt cgtttttctc tatcaccaaa catacattat atctatatat attgtgagta 180  
 ccagaggtag taagcattac atgtaattag attgacttgc caccaacatg gttccaagct 240  
 acaatcttat ttgtattgga cgtctagtaa tgtattgtat atattggtag cattctatca 300  
 gcggagtcta ttcgagcttt ctttatttga aata 334

<210> 29568  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29568

tactaaggca cctgttctag ctcaagtatga cttttctaaa acttttgagc tagaatgtga 60  
 tgccctctgga gtgggagatg gagctgtatt gttacaaggt gggcacccta tagcttattt 120  
 tagtgaaaaa cttcatagtgc ccaccctcaa ctaccccacc tatgataaag agctttatgc 180  
 cttaataaga gccctccaaa ctagggaaca ttaccttggt tccaaggaat ttgtcattca 240  
 tagtgatcat caatcactta agtacattag agggcaaagc aagttaaact agaggcatgc 300  
 ataatgggta gaggacctag agcaatntcc atatgttatc aaatacaaaa agggaataac 360

aaatgtggta gctgatgccc tctctangag acacacattg ttttgctccc tacgagctca 420

aaatttagga tttgataata ttanggactt gtatgc 456

<210> 29569  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29569

agcttgatta tgaaattggt atacatacgt actaatccaa taaataatca ctaaatagca 60

aaataaaaact aaaaattgtg acttttggtt ctcgatcggn tcaaaggtgt caacttggaa 120

gcaatggaca catagtgtgt ttctcagaag aatgttctga ttgaattccc attaagtctt 180

aaggtccttg cagttgatca tgacctcact attcttgata acattcttaa tatgtgttct 240

cgatgccact atcgcggtaa tttcaattaa ttgttactat ttcttgata aagatttgat 300

ctttttttat tgatgattgc gtttatgtcg caactgtggc atactctgat gcctcacttg 360

ctattttgcg aggaaactct ggagtcnata tcaaccacca aaaaaacaag attctg 416

<210> 29570  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29570

tgagccaata ttaggaacta agcaatgtat tctattttca caattattgt gtnnttcact 60

ttagcttact caaaattcta agctcaacta atagtcacta aaaataaata ttttagcttt 120

gccataaata aggcttgact gccatttaga aagtgagggg ggagttcttc atttggcatg 180

aattcacagt ccatcgagag gggaagcttc ctttgggctc cactcttcat ctttttctc 240

cctccatgtg ttttgaggct acccatggaa atgggtagct aaatcctcca ccattggagt 300

tagatgcaac caaactcata ttctcttcta tcttttgata ttntaatata tatatatata 360

tatatatata tatatatagt attaagtta gtatttgctt ctttatttaa tgtctgttgn 420

ggaatttcca accatggcat gtttttaggta cttg 454

<210> 29571  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<400> 29571

agcttcaaga taaaattgat gttggttggg tcagcaagaa gtttgtcaat ggaaggtaca 60  
 ttatccttct tgagattaaa gaatgcggat gggacattct ttgctttgta aaaaaacaaa 120  
 aaaatggatt gttttctttg aagtccatga actagtttgt tgatagaggt gtgattagcc 180  
 tgtctaataga tcctttacat ttacatggaa ctggaggtcc tatgacaagg tccaagacta 240  
 agaggatgaa gtaagcattg caaggcctaa tcctaaa 277

<210> 29572  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29572

tgccaccag ctcgcccagg cgagctaggt tgcttcctcc agattgcagg agaacttct 60  
 ggaaggccct ggttgctatt tgcaccccat tttactaaa tgcacccct tgcctctttt 120  
 gctgattctt tttccgtaac gttatggaaa cttacgaatt acgtaacgat acttgttttc 180  
 cttccgtaat gttacggaac cttacggatt acataatcgt cccttttttt cttccggag 240  
 tgttacgaaa ctttacggat tgtgcactaa cacttccttt taatttccgg catgtcacga 300  
 aacttcacgg attgtgctac aatgctttct tttgacttcc agcatgtctc ggaacttcac 360  
 aaattgcta acgatgggtg ccaagtacct cgaagtgtgc aaacgagggt cgcacccaa 420  
 caatggatgg tcccagacg atattanggt atgacaca 458

<210> 29573  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<400> 29573

tatggagatg cagcggaaga tcaaggacaa gacgcgagag gagacgccat ccactagggga 60  
 ataagccatg gaagactgag gttctccacc aagaatgtgt cttggataag aagcttggag 120

agaatgcttc aatggaggat aagacagatg gagagaacga gagacgggcg agcacgagat 180  
tgaaggatga aaatgtggag agaagctgaa ctgtgagtag tgcttcacaa gactctcatt 240  
catcagagtt accacaagtg taacacatgc gtctatttat ag 282

<210> 29574  
<211> 382  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29574

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ttctgagagc ttgagatgag tttgtgagtg attgtgagat cctagagggtg aaggagacat 120  
cctcaccact tgtatttttg caatctttca tcttattctt ctctatgtta gaaaggaggt 180  
ttccagacta tggaaagcta aatcctctgt tggatcttcc ttataggtac ttgatgtaaa 240  
tatatntcta tctatgtaat gatgttttgt gcattctctg tgctatctgc tnttcattcc 300  
agtatgcctt taccttgatc acgtagatgc atgctgttgt anggtcattc aacagngaaa 360  
ctgggttgat tctaagtctt ga 382

<210> 29575  
<211> 414  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29575

cactcgaccc gggatcttaa gtcacctgcg gcatgcaagc ttcgagaatg aaatcatttt 60  
gtacactttt gggatccct tatacccttt cttcattaat attattggat cntgcccga 120  
taaaaaaaca tgaatcacct tttattttaa catttcacta atacttttca tttttatcta 180  
tctttctctt cttatctcat cataaatcct atcacaccta tatgttttct ttgctctttc 240  
tctctctaaa tattggataa cattcggagt gtctatcaca cattctcctc gatacaatct 300  
tatacttgaa tttccttggtg acaaacacna tgattatgaa ttaaccctga tgtgatcctt 360  
actangagcg gatcgcttga tacaggtcac agagnttgga tgacttcact ttca 414

<210> 29576

<211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29576

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 actttaatgt aacaaaaggt cactgcacgt tggatatgctc aagaagggat tatatttagtg 120  
 taattcaata aacaatctat gccaatccaa aagcgtaaaa gccattacta ttgaacgtgg 180  
 atgactagtg tgggtccacat attagggacc attttagaag cccanaaagg ctaaaatata 240  
 angattgctt angtgaaaaa aacaatcggt ttctaggaaa ttgaaagtga aagtgaaaat 300  
 catctggcat aggagaatta aaaaagttga aacagggacg gaagataaca aaaaatatat 360  
 actagtaaatt attaggggtta attactntga tatttataat tatacaaaaa tgatcttagt 420  
 ttttataca 429

<210> 29577  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29577

gcttggatct tatatatagt ttgcacatgt ctgtgcaatt gggtattggt ttaagagggtg 60  
 gagtataaac acattagaat gttntctttg tgtgtcactc tactaagatg attatctttt 120  
 tggattctgg aatagatgca acacatcttt ttttactaaa tcttggaag taacttctaa 180  
 aaactttata ccttctagaa gatacttttc ataatacana aattgaaaca gtattttaga 240  
 aagtactttc cacaaaatat tattttgtat ttcagagagt atattttgga ataatgggtta 300  
 aattttgtga ttcaggaaag tacttttcag aatacaaaaa tntaaacatc aatccagaat 360  
 gtactttcgg aatgatgaga taggggtattt taggtataat aagtattcat gataataagt 420  
 agagtgtact tagacaaaag gagtggatat agc 453

<210> 29578  
 <211> 455  
 <212> DNA  
 <213> Glycine max

[illegible]

<210>	29579
<211>	420
<212>	DNA
<213>	Glycine max

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gcgcaaaatc	tcttgaacta	ngaagatg	gcccatcatc	tttttgttct	taatgaaagc	120
agtttgagtg	tccctaataa	tagtctcaag	cactggggct	atgtgggttag	ccagaat	180
agatacaatc	ttgtataaca	aattacagca	agatattggt	ctaaaatggt	taacctgcga	240
ggcctgatca	tgcttaggaa	taagcgcaat	aatagcatgg	ttgagctgct	ttagaat	300
tccagttgta	aagaattcat	taaccgctgc	agagatataa	tcaccaatga	tatctcaagc	360
cttcttgaag	aataaaacat	tgaaaccatc	tggcctagga	gcgttattgt	atccatcaca	420

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<223>      unsure at all n locations
<400>      29580
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12332





[illegible]

<400> 29583

<400> 29584

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<223>      unsure at all n locations
<400>      29585
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12334

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 tgagactcac ataattattca gagaattcaa tcttaattggt aatatatgaa tcacttatat 180  
 ctcatcactc tcttttaata agcttatatg tgttcaagtt aaaattccca aagagtataa 240  
 ttccatattc gacacttgat cagtaataat agtatcctag cctagatttt ctccattcat 300  
 aagctaataga tgcgttggtta actctcgttc tactggaacg tgatgcactc acgtctgatg 360  
 tggaattaac tcgaccatt gtatctatat ctttccgttg catgacgggt gaccattcac 420  
 acattcaaag aatca 435

<210> 29586  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<400> 29586

agctttgagc ttttcaaag gtcataaata gtaactcgga ggtccgattc aggcgcataat 60  
 tttatcgtga cgctcgaaat tgaacaacgg aagctctcaa gaatatcatt ggtcataact 120  
 tttaactcag aggtccgatt caagcgcata atatatcgag acgctcgaaa ttgaacaacg 180  
 gaagctctca agaaatttaa atagtcataa cttttaactc ggagggtccga ttcaggcgca 240  
 taatatatcg agacactcta aattgaacat cagacgctct agagagaatc aaatgggtcat 300  
 aacttttaac tcggagggtcc gcatcaagcg cataatatat cgatac 346

<210> 29587  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29587

tgtanggtta aagtctcacg aatgtcatgt gctcatgcaa caattgttag ccgtggctat 60  
 acgagatatc ttgccaaaca aagtctgggt agcgataact cgcctgtgct ttttcttcca 120  
 tgctatatgt atcaaagtca ttgatccagt caagtttgat gagttggaaa atgaggccgc 180  
 aattatactg tgccagttgg agatgtatct tcccccgct ttctttgaca tcatgattca 240  
 cttgattgtg catctgggtca gagaaatcaa atgttggtgt cctgtatatc tacgggtggat 300  
 gtacccgggt gagcgatata tgaagatctt aatagggtat acgaagaatc tatatcgtcc 360

agaagcatct attgttgaga ggtacattgc agaagaagcc attgaatttt gttcagaata 420  
 cttagagaaa gctaaacctg ttgggctatc tgagtct 457

<210> 29588  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 29588

ctctctacat atcatgcgcc gcactcggac atgcctgtga aaagatatgt tcataccaat 60  
 tgctcgagag cttacgatgc ttaatttcga gcgtatcgat atattatatg cctgaccg 120  
 acctcacagc gaaaagtatt gaccatacca atttcacgag agcttacgtt gtgcagttcc 180  
 gagcgtatct atatgagatg cgccgcactc gaacatccca gtgaaatgat atgaccatgt 240  
 gaattttctca agagcttacg ttgcgcaatt tcgagcctat cgacatgtta tgcgcccga 300  
 ctggacatcc cagtgaagag atatgaccat acgaatttca cgagagctta cgatgtgata 360  
 ttcgagccta tcgacatatt atgc 384

<210> 29589  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29589

agcttatatc cagcaaggca caaggaacaa attaaatcaa gtcttatcaa aatcagataa 60  
 ttcatgggac ttctatcaat gcaaaatgtc ttccaaaaca aaaagctgac cttttggctg 120  
 actacattgc atttatgaaa gatagacagt acatatttgt tgattcatgc agggacgcga 180  
 ctaccttaat cttagattgt attatccatc aagctttctc tcangatgcc attggagatg 240  
 cagtatacca tataaaggaa aatactagtgc cccaagacat acaccttctt gcatccatat 300  
 ngaagctgat gagtgtttca ttgctgcata caattaagta tctaagcaat agtggtgatt 360  
 cagatgtaga agcacataac tttgatgggt tgatgatgat aatgatgatt tga 413

<210> 29590  
 <211> 444  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29590

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ctgcaattaa ggcagccccc atagcaaccg caactgagct tggatagggg tgaccacaat 120  
taagcttggc tttccaacaa ttaggcaatt ccctaactct tcttaccatt ttctccactc 180  
tttcaccccc tttttcctcc tcttctctac acaccaacag acttttacta ctgttaggac 240  
catttttatac tttctttcct ctcccatgta tcttgatcag cagcccatca gaactcaatt 300  
aaattaaaat acaactcang cagaacaaaa aatctgaata ttatttggac agtgaggtct 360  
ctcccaagtt tgtctatgtt tgactgctga acttatggag attaacataa atgatctggt 420  
acagttgcga gggacacaca aagc 444

<210> 29591

<211> 416

<212> DNA

<213> Glycine max

<400> 29591

agcttgaagg ctaactggat gcattggtca acttggtaac ccagctggcc ttgaatcaga 60  
aatctgtacc tgtcgcaagg gtttgtggtt agtgctcctc tgctgaccac catacagacc 120  
tttgcccttc catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaata 180  
tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcaaagc aattatgacc 240  
tctccagcaa cagatacaac cctagatgga ggaatcacc taacctcaga tgggccagcc 300  
ctcagcaaca acaacagcag cctgctcctt ccttccataa tgctgctggc ccaagcagac 360  
catacattcc ttcaccaatc caacaacagc aacaacctca gatacagcca acagtt 416

<210> 29592

<211> 468

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29592

atgccgtgga gtttgacaca atgtcaatga acaacatatg taccatgtga gctgtatgag 60

cctgaggtat aatgccgaag tgaatcccct ttganaagcg gtcaacaacc acaaggagta 120  
 caatcttgcc ctgaaaaaaaa ggaagaccaa tgacgaaatc aagggagagg tcctcccatg 180  
 gtctgaatgg aactggaaga gggcacaaca agcccacaat atgtttcggt tcatatttcg 240  
 tgaattgaca ttcaatacaa ttagctacaa agttggcgac atcagctcgg agacctggcc 300  
 aagttaaatt ctccgacaac catgttattg tctttgtgac tccaatatga ccccccattg 360  
 gagtggcatg gtattcgatc aagagagatt gaatgagtgg aagatcatgg tgtaaccata 420  
 ttctgccctt ctggagaatg agattcntaa taatggtgaa gtctggat 468

<210> 29593  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 29593  
 agcttgagat gatgaattgt ttaatggtca accttctgc ttttatcggt gaccacagag 60  
 tggtagctgc agatatgtcg ggggggacaa gagaccttgg ggacgtcaag tggggtgcta 120  
 ttgccccaaa ccaagcttga ccaatcccg cccaaccgg gcatagtcgg tcagctgaga 180  
 acctgtgatg tacctaaaca agcgagctcc tggcagtc aaagataaaa gaacaatgac 240  
 tccaaagcaa ggaggcttgt ggtggctggc cagctgagaa acttgagtga tttgtgggct 300  
 gtggctctga taatcgagta ccacgggtgg gtaattgatt acacggctta agaatgaaga 360  
 cagtgggcta agattgtctc tggtaatoga ttaccagcgg atgtatctaa cacc 414

<210> 29594  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29594

tcagaccana gcaactcana atctaggtat ctaaaacccc tcaatttttag tggatttcaa 60  
 cgtttgagaa gtgaaaatga gaatgggact tggagcaaac tctcatctca aacaagtcta 120  
 tatcatcaat ttaaactcgc tcaaactggg tntacgacga atactctacc gaatcaaaat 180  
 ttgactcctc aacacccaat ttaccctag aaatggctct tgttttcact ttggctactc 240  
 atattcctca tttgcacagt ctaagctttc tcataagtcc taaatgacat ttcaaactag 300

[illegible]

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<223>      unsure at all n locations
<400>      29595
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<210>      29596
<211>      475
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      29596
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12339

taccctaagg ctcattgagaa ccctanggcc ttcccttgga tctctggcac aatct 475

<210> 29597  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 29597

agctttgacc aaattcaaac gatgataact ttttactcgg atgtctgatt gagtcccgtg 60  
 atatatcgag acgctcgaaa ttgaatgttg aagctctgac caaattcaaa cgatgataac 120  
 ttttactcgg gatgtctgat tgagtccgtt aatatatcga gacgctcgaa attgaatgtt 180  
 gaagctctca gcaaattcaa acgataataa atttttactc ggatgtctga ttaagtcccg 240  
 taatacatcg agacgctcga aattgaatgt tgaagctctc agcaaattca aacgacaata 300  
 atttttttag tcagatgtct gattgagacc cgtaatatat cgagacgacg gaaattgaat 360  
 tctgaagctc tgagctaatt caaacgacaa taacgctttg ctcggatgtc tgattgagtc 420  
 ctg 423

<210> 29598  
 <211> 493  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29598

gacgcgacac ttaataactca gcttctatat aagctgaacc attttatcaa taaacacaag 60  
 ttgagtttta ttcagaaaat tagagtttat ctctttttatc ttagtgagag tgattctcct 120  
 aaattcttga gtgattcaag aacaccctgg ctatatcaaa ggactttcac aacctttgtg 180  
 tgttgccctc gctggaaaga gtgattcttt ccttccctatc atctccaccc ttgttctttc 240  
 aaaccacaat tccagaaaat ccacctctgc ccaaaattat ctcgtgacca taacttccat 300  
 ttacacact caaattaagt gattcttgag cctaaattga atttcaaaac gatacctttc 360  
 acctcgttct ggaatcacct cattnnggagc cctgtagctt ccgttattgc catttctata 420  
 tttctgtcca gccaccactt aacctacgtt ntaccatccc attcattcca tttatgccag 480  
 aaaccacctt att 493



<210> 29599  
 <211> 566  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29599

cctcacacca atctacctcc tcacgcttct attccganant tctgccctcc gacactatgc 60  
 accccccccc cccccccacg agtgagctga tgcaatagtc atcaggccaa tccactcgta 120  
 ccgtagaccc tagatcccct gccgcatgca acttagaatt taacttgcac tccaatgcaa 180  
 cgaaacatgc tatggctaca tattcacatt tgcttgtgag agcccatgct aactctgcg 240  
 ctgacccatg cctgatactt cacatagaaa gaccgtggaa aacatcctcg aaatagtgtg 300  
 catacatagg tcaatatcag gagcattaac tccaacaca gcgagaatga tcgactccct 360  
 aagtgaacgt atgatcacgc ggaacgccat ttgaatgcat gtatgtgcat aatgcaaaaa 420  
 tctagccaat atgtgcaagt gtgagagaaa caatcaacgt cggtaaggca tatatactct 480  
 gagtgcgga acgcacatcg cgatacctca ctgtttagac atagctatct caaattatag 540  
 cccacgcctt gaggtgacag ctctcg 566

<210> 29600  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29600

agcttatatg ttactctgag cactgaatan ggaagagaca tagggataac tatagtcact 60  
 ccagggctga ttgagtcaga aatgtcgcaa gggaaagtcc tatccatgga atgcaagatg 120  
 gtttttgatc aactaataag agatgtaagc tatctttact ttttgcacaa gacttggacg 180  
 caatttttaa catatctttt gtgctgtttc ctagtcagaa ttggaacttc acttgataa 240  
 ataaaagatt agtattattc attgtaatat aagccaagtt cggtccttgc ctttcattgt 300  
 aaatatattg ttctccatcg gaatcggagt ccagcctgag agggaacgga acggaacttg 360  
 gttttctcct cacatggggg cctacaggtt acacaccag ccaatacta 409

<210> 29601

<211> 534  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29601  
  
 cacattgtcc taacttatca atctcatatt ctaatgtaat ttatatnnna annannncat 60  
 cgatgagcgt gctgaccctt gcattccggc actatnaata ctcaacttgt atcataagag 120  
 ccttatggga ctaaattctta tccactctaa ctatacttcc tgaacttcga tattcgatgg 180  
 atatgcoctgc cagaatcagt tctggacgct taagtcgcgg atctaagggg cacttatact 240  
 acctatcctt ttatgggatt cttttccttc attaagatag ttctatctga tctgacatta 300  
 ttaccatata tagaagatca agaagtgcct ttgcctgaga tagactatat taaaaaactt 360  
 aaccttggtc tccaatgcag tatacacgaa cagcataagc catgctaagc aatgggtgcaa 420  
 agctgacatg acaagctgtg acaatgccta ctgcacaccg ggggaaagtc agtctagtga 480  
 atcacttgct ttcatactgg ctcatattat atgagatgac cgctcgcac gaag 534

<210> 29602  
 <211> 341  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29602  
  
 agcttcacga ttttcctagc aatttagttt cagacaggga tcccattttt gtacgacttt 60  
 tttggcgcaa attgttcacc atgtgtggca taaagctatg tatgagcact tcacatcacc 120  
 cagaaatgaa ccagcaaacc aaagtctctga accatacttt agagcaatat ctcaaagct 180  
 tggtcagtga cacaccaact cgctggttca actatctctc actggcagaa tggcggtata 240  
 atacatccat tcattctgct acaagaatta ctcnctttga agcaacttac ggcaaggctc 300  
 cttcttctat tctcgggtact tgatgggatc gtccagcgta t 341

<210> 29603  
 <211> 455  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29603

nttaatttag tagtgggaac gacaaacagg atggaatatg aggatcaaag ttgagctaca 60  
 ttgagatatg ggttatgaat gttggtggca taacatccac atcaataaaa gtgtatatat 120  
 atatatataa tactagaaac tgtatccaat ctcttaagta tcgactaaga ctattcatta 180  
 ataactatga gaaaggatca taaccttatt cttaaaattc taaaaacatt aggactctag 240  
 ttctgatcat gtaagtatca ttcaaggagg cttttggctc ccactacttt gccaaagatt 300  
 gtgctgggta ggtttaagta aaagggttctg aaatttggtt agaaaagcat gttatctttt 360  
 ttaagggcac ttagttggat aggatgggtc ttcagcctcc caataattnt tctatgctag 420  
 ctagttgctg atagatgggt taaaagattg aaatt 455

<210> 29604  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29604

agcttgatga tatgggctaa tcccgaaga atttatacaa caaaggcttc gattcaaaag 60  
 gaatcctana gagtctgctg gagtgactaa catcaaacgt acgcttatca caattgtctt 120  
 tgggcattnt ccatgagctc ctggtccaat gagttttctt ctcaattgtg caagtacgaa 180  
 accttgagga ttatatattt ttttcaataa tcacaagcgt gtatggggtt cattccagaa 240  
 tcccaactta taagcaaaat tagtcattcc ttgatccaca tgggctntat tgtgcttgta 300  
 acgtggtcag ggggatgagg gctatganag aaaggattag agaggctcan agagtgtttg 360  
 aaggttacat tgagtaagaa ccttgagagt cttgcttgta ctttttgtcc tttcaactct 420  
 tg 422

<210> 29605  
 <211> 454  
 <212> DNA  
 <213> Glycine max  
 <400> 29605

tgaatatcgt catactttgt acattcccgc attgtgtctt ttgcatatgc atcgcatatg 60  
 ggttctgtct tgatcccttc agtaaacaaa ccaacggagg gtctgtgtcg ccttcttaaa 120

aacgtacgtt ggggcacttt gctacccta gacgttgat ctaagaagg gacaaattcc 180  
 ccgggcccc gcattcctag attgcatttg tgtcatatgc attccatcat gcattcatcc 240  
 atcccacca tgagatatcg gagttttgat ttgcaccagt ttttgtctca ctttagtaag 300  
 catgggaaca aatcaaaccg gcaagaggtt ctaccaagtc aagggttaaaa gcttagatac 360  
 caccagcatc aaggaattag ggcggttgat gaaacctctc caaatgcaag ccttcgcaa 420  
 gacttacgga aagatcttag agttgacat agca 454

<210> 29606  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 29606

agcttctgtt ttcaattttg agcgtctaga tatattacgg gtatcaatcg gacatccgag 60  
 caaaaagtta ttgtcatttg aatttttgtt attcattttt tagcatcaag aattattaaa 120  
 tgactcaatc ggacatccga gtaaaaagtt attgtcgttt gaatttgctg acagcttttg 180  
 tattcaattt cgagagtctc gaattattaa atgactcaat cggacatccg agtaaaaaga 240  
 tattgtcatt tgaattttct tagagctttt gatttcaatt tgcagcatct agaattatta 300  
 aaggactcaa tcggacatcc gagtaaatag ttatggatcat ttgaatttgc ttagagttac 360  
 tggctcfaat ttcgtgcgtc tcgatatact ataggactca atcggac 407

<210> 29607  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29607

tgtagcanat gcaaaccaca ataactntta gtcggatat ccgattgagt cccgtaatat 60  
 atcaagacgc tcgaaattga atacagaagc tcttagcaaa ttaaaacgac aataactttc 120  
 tactcggatg tctgattggg tcacgtaatg tatcgagtca ctcgaaactg aatacagaag 180  
 ctgagagaaa attcaaacga caatgacttt taactcggat atcccattga gtcccgaat 240  
 atatcgagac gttcgaaatt gaatgtagaa gctgtgagaa aattgtaacg ataataactt 300  
 tttactcgga tgttcgattg aatcccgtaa tatatcaaga cgcttaaaat tgaacacaga 360

agctcgtagc anactcaagc gacaataact nntaactagg atgagtcctg taatatatcg 420  
agatgctcga aacttataac ggaagttcgt agcatattca 460

<210> 29608  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 29608

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agagagcatg aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120  
ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180  
cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
caaattattga agaagatgag gaggttaacta tggctcgatt tcttaatggt ttgactaatg 300  
atatccgtga tattgctgag ctgcacgaag ttgttgatat ggatgatttg cttcaciaag 360  
caatccaagt ggagc 375

<210> 29609  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29609

ntgcggatnt ggtcttcgcc agtgaaagga tcgaagtgga tctgataaga ggcaaatacta 60  
atcatcctgc ttagacgaat gagaaaaactg nggcaaataa agaggggtgag gatgagggag 120  
aaacccatga tgtgactgcc attcctatac ggccaagttt cccaccaaac ccaacaatgt 180  
cattactcag tcaataacaa accacctcct taccacaccac ccagttatcc acaaaggcca 240  
tccttaaate aaccacaaag cctgtctacc gcacttccaa tgacgaagac caccttttagc 300  
acataccata ataaacacca accaagatat gaattntgca gcgaatagcc tgtatgattc 360  
accccaaatt ccggtgtcat atgctaactt gctcncatat ctacttgata acgcaatggt 420  
agccataacc cct 433

<210> 29610

<211> 352  
<212> DNA  
<213> Glycine max

<400> 29610

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tatcaacagc ttttcatctt tagaatgagc gcccatctta cggcagtaca tottgagatg 120  
ggttttggga caagtcgtcc ctttatactt gtcgaagtcc ggcactttga atttcggggg 180  
aataacaaca tcgggtacta aacaaagatc cgtcatgtct gcaaacggat agtcccaaaa 240  
tccttcaca gccctcaatc tttcctcaag gagatcgagc ttccttcttt cttcaattgc 300  
cgggggcggc ccttccatag acaaaactat aggcgatgct gcgatgttgg gt 352

<210> 29611  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29611

tcanaataaa aacctaactg gttgaagatc gatgaacgat gaagaacgaa tgaagaatag 60  
cgaagaatga tgaagaacat ccacagaatt gatcacaaaa acatcatgga agcgttacag 120  
aagcgtctcg gcttggaattt attccttctt tcttcttttc ctactaatt ttaagtgaaa 180  
actgaatatc caatgtgctg aacccttcc cctcagtcctt aaaagtcatt ntatagcaaa 240  
aatgagggag atgggtgccc cccagcctgc ccaggcgagc tatgtagctt ccacctgaag 300  
caacctccct ctagaatgtt ccagatgggc ccaggactag atacaccnc cctgaatgga 360  
tcagttcacc cnccattttg tgttttggtt gatttccttc gaacatcgtg aaatgtacga 420  
atacacgttg atagt 435

<210> 29612  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 29612

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attaacacaa tgtttgatgt gataaaccca cctataacca attgaaactt agcttgggga 180  
 aaatcagtta gatacgaagt atgatttgct tcaagagtat gtaattcatc cttcatagct 240  
 tttcttaata cagtttcata cttaacagct tatgcatatg ttttgggttc agaaattttt 300  
 gaaatggcta aggtatatat ttgagatgac taggagacaa atgatgatag gacagaacag 360  
 tggataagga atataaagca gtacctgaag tagaagacag gaacctgctg agttagaaga 420  
 ttgcatgta 429

<210> 29613  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29613

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 atctatctct ttcttattgc tcattggcct ctgttctttt cttcctgtca aatactataa 180  
 ctaccacatt gaaccactnt ntacactaaa gcttctgttt agtctcctca catacaaagt 240  
 ttttttttgt cttctctctc agatatattt gttcctaate ttatcttttt cttatatgcg 300  
 aactcatcag ctntaacatt cttatcttat ctacacactt gaggttatat ttatagtaat 360  
 taatacaact tatattntat ctttgattag cctgtgca 397

<210> 29614  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 29614

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 accttggtgtg tatTTgataa gctacaaaaa tgttgcttaa acatgtcact gtcttcttca 180  
 gatggtagac ttcccaaatt gccttcagta gttgtttctg acacacttcc agattcactt 240  
 aaatacaact gctctgcttt actctcagaa acttcttcag aacaccaaga aacatcatta 300

ttgttacagc cagcatgttc tggagcaaca cccctctttt cattcttgct aaggttatta 360  
cgcccaaagg agttctggtc ctcaaaatc acagccttat gttgtcctac aataagccat 420

<210> 29615  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29615

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caatggcctg cagtcgttca aagcagttca atgagttctg caagaaaata ggcacaaaa 120  
ggcacataat agtcctcac acaccacaac aaaatggttt ggcagaaaga atgaataaga 180  
ccattttgga aagagtgagg tgcataactt ctaatgcatg actgccaaag accttctggg 240  
gagatactgc tacaccacag catatttgat aatagatgtc catcatcagc cttatgtttc 300  
aagacactaa tggaagcttg gagcggtgaa ccacctgatt attcatgatt aaaggcgttc 360  
tgatcactgg ctttcgtca tgttaaacia cgaatgctgg atgcaaggtg tataaagtga 420  
gtgttca 427

<210> 29616  
<211> 355  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29616

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agccaaccaa acaacaaatc ttttgattat tttagagcta gtagtgactt actaggacaa 180  
aagatattga gttgggtaag tttgcgttgc atgagccaag agtgatagtg aaaaatactt 240  
gtaattagtg aaatttggtg gtttatcaag aactggacgt aatctcagtg gtaaagacga 300  
accgatataa aacttcatgt gtctgatata tatctctttg tgcttatcta gtctt 355

<210> 29617  
<211> 475  
<212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 29617

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tttattcttt gtttttggtt cattatttat ccattgtttt catccagatg tatatttaaat 180  
ccagttaaaa ttfcagctca aaacttaag tattcaaacc atgggtggagt taagaagaaa 240  
gtgtgccaaa attgacagca accaaaattt caacctagaa ataaagagta gtgtttatat 300  
tgtttaaggc ttagatagtt acaatttggt gttgattaag atcaattgtc ttgaataaaa 360  
caaatcgata gagcttaaga cttattttga ttcacaaatc caggcacaac tcaatttctt 420  
cataggcatc atataggana cttanaaaac aaaaaagttc aacaaaacta cttct 475

<210> 29618

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29618

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gtggatgacg cctcctctca cctcttctcc tttgtcttcc actgcatctc catggtggaa 120  
aatcaccatt aaaggacctc attgaagctc anaccaccaa aagtgagtgt tttgttgga 180  
accttgaatg tggatcatcca aacactctta ggattcgctt agtttacatt tcttgcttac 240  
tttcatagct tatttccttt atcttccatt gtcaaaccgc ctagatagct ttccttttaa 300  
ccaattagtt ttttccctta tctntcagac ctcttttagt gtttattttg gctagtttca 360  
accatagtta cttttacctt ntgttttcaa acctccaata agaaagaacc acaactt 417

<210> 29619

<211> 463

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29619

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gcatgaaggg tctatatata tgtgtgtcta actttgaaaa gcaagaaaga gatattctaa 120  
 gagaacttca ttgccaaatg ttctctcaac aactcttggg caaacactta caaatctatt 180  
 gagagttcat ccaggaatth caatttgtat catccactct aaaggagaga aatctttttg 240  
 tttatctcan aagtcagttg taatcaagag actgggtgtc tcttgaattg tgagtatcct 300  
 gaacacaaga gaaagggatt cctcgggtgt tcagaagttg taaaaaggat ttttacaag 360  
 ttagtgaaaa tctcaagtgg gttgcttgag gattagatgt angcacagga agtggctgaa 420  
 ccagtataaa tcgagtntgc atttctctct tcttcatct cat 463

<210> 29620  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 29620

agttccaca acatccaaga gaaacaacat tcaaacagca caagctatca cagccaagca 60  
 aaacagagta aaggcagaaa actctgctca acacatcaac caaaatcaca gcttttctca 120  
 cttaaagacc acagtaacaa ttccttcgat ccaattcgtt aaccgttggg tgcactccaa 180  
 aattttactg gaagtctata gtgcataagc ctacattgta accgttggga tctactagaa 240  
 aacatccaga actcattctg tactactctt tccacagcca accacacaca agcattttct 300  
 gcaccaagct aaaatcctgc tgcacctatt atgacagcaa aattctgcat aagtgcagat 360  
 ttogaacatc acacttccc tcatccaatc ttgctcagat cagatcctac aagtcccaaa 420  
 tc 422

<210> 29621  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29621

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 gagaagtgag agtgagacgc cataaagtgt gtaaaattht tatatagtca gtatatgttt 180

gataataagt tctttgaaag ttctactaac aagaatccag aaataaatta tttttggtta 240  
 ttaacaaagt ataaacaaca attattcagg tcaagacaat taaaatatct gcaagagcag 300  
 catatacctc aactctaagt atcagacacg atcacatact tatectatta catggaccgt 360  
 gtaattctgg aatcttcttt ttagatntta ccgttattat tttgctctca ttagctgtgc 420  
 attgttcttg cacat 435

<210> 29622  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 29622

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 tcttgaataa aatttggtt cttaataatt tggacaacat aagtgttaat agatttataa 180  
 acttaaacta atgtgatgtt agaaatcaat taagaaccac atactaggat gggcattaga 240  
 cacctaacga cccattctga gaattaatgg atgcttgggg gttattagag accctaaact 300  
 cacgaaatta tgcgacaaca cgaattttgt tatgtcataa actaagtgtg caagtgtgta 360  
 gttttcac 368

<210> 29623  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29623

tccatggcat gaggtctggc tcccgtctg ctcttgcccg cgatgccttc tccctttctt 60  
 tatccacatg ctctctctcc ctcaatgaat taaggcaacc cctctccctt cttcatcca 120  
 agatgcttgt cgagctctcc aagtcccagg actcccctgc cggcgacagc accaccaccg 180  
 tcatcgatcat catcggcgcc ctctcaagc agtgccnca cttctctctc cagcagatcc 240  
 accccacat cgtcactgac gccctccaca aggctgccat caaggctgtc gatgttctca 300  
 ttgccatggc tgtctctgtc aagctctcca accgtgactc cctcgtgaag tccactcana 360  
 tntaatggat aggggtaata tgaatangta acccaattga aataagaaac tacccaatta 420

natccaatga actactacna atatgcatca acat

454

<210> 29624  
<211> 367  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29624

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cacagttttt ctcccatggt taagttgttt gtaacttgta ttttcttcac agatggggca 120  
tgcattgatga ccttaacac tgtaaccgt gagattccca tatgctggaa agtcattaat 180  
ggtagaaaaa agcattgcac gcatttcaa ggtctccttg cgaaacgcac canacactac 240  
aaccctcttg tcccacaact ttctcagatc ttcaaccaac ggacttagat aaacatcaat 300  
gtcatttctt ggctgtcttg ggcccgatat catcatattc agcgtcatgt gttttcgctt 360  
catgcac 367

<210> 29625  
<211> 446  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29625

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cagcgggttc aacacctgaa tactgtattt ggaaagacc aaaagaagga taaaagtaag 120  
agttgcatat ggaaaaagag gtccattttt ttgatcttc tgtactagtc tgatctagat 180  
gttagacatt gtattgatgt tatgcatgac gagaaaaatg tatgtgacag tgtgattggc 240  
acgctcctta acattcaagg caagatgaag gatggcttga ataccgtca agatctagct 300  
aatacaggga tacaatcata gttgcatcca aggtctgatg ggaagaaaat ttacttgccc 360  
ccagcttgcc atactttgtc caaaaaggag aagatccgt tttgtcagtt tcttcgctcg 420  
gtgaagggtc cacaaggata ctcttc 446

<210> 29626  
<211> 421

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29626  
  
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 tattcaatgg caaaacctcc ctccaagtga aaataattgg gaatctgtgg ctaaattaca 120  
 agaggttttt ccgacttata accttgagga caaggtgagt cttttaggaa ggggtattga 180  
 tatgcataag cataagccac acatcaccaa ggtgtacact cgcaaacaac gagcaaaaga 240  
 agcaataacc atggaccacc agcagcaagg cgcaaacac ccaaggggtg caaaccaccc 300  
 aatagttaca acccatccaa aggggtgtaaa ccacctaata gttacgattc acccaaagaa 360  
 tgcaatgtca gaagatgcga atcaagggga catgaccctt gngaacagtc acaatcaacc 420  
 g 421

<210> 29627  
 <211> 461  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29627  
  
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 acagaagaac atagaccaca gactctttca acagggtgtag attttttatt catggcaagc 120  
 tgagttacta ggttgaccaa ggcatacaagt tttccctcaa gctttttact aggttgacca 180  
 agccatcaac ttttccctca agctttttat tttcacttga atttgaaatt gaattttgga 240  
 gacaaatttt cactaattat gattagtga ttttagctat gggtcagccc accaatccaa 300  
 gatcaattcc aagattctcc actaagtgtg cttaggtgtc atgaggcatg taaagcatga 360  
 aggacatgca caaagtgtga ctatatgatg tggcaatggn gtgtagcaag caaatgatca 420  
 cctccccctc taatanttta atggattgggt cttctcccaa t 461

<210> 29628  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
  
 <400> 29628

[illegible]

<400> 29629

<210>	29630
<211>	457
<212>	DNA
<213>	Glycine max

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tctccaggta	ccactctgtg	gtcaacaaat	aaaagtagga	agactgactc	ttccatgctt	120
tctcacacca	agcttatttg	attatggggc	acccatcata	tgtgggtacta	gggtggcgatc	180
gggcgatggc	accaatcaac	tatcccattt	ccacaagcca	ggcataagca	caccatcccc	240
agttgtgcac	ctttaaattt	agctcatgtg	cacatacgta	gccttctcct	cgttcctctc	300

agccccgggtc cccatcaacc ccaccaagct ttcacaatat ccaaacaatt caattccatt 360  
 tgtcatgaaa ctaccttaaa caaagaataa cagagtggag gcagaaatct ttgcacaaga 420  
 ttcattcaaa ttccatagaa gttttcctac cctcata 457

<210> 29631  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 29631

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 aatacattga tctaaacata agtgaaaagc ttaaggctct atctagctaa aaaaagacag 120  
 acaaaataat gaactcggtc cattaactaa aattcaatta cgagataaag catagatacg 180  
 aaagattatt acatagatta tgtacttggc taaacttaaa ggagtgttgt tcgccggcga 240  
 gctggagggt gccgctgacg aagacgatca tggcggagtt gacagcggac ggctgggaat 300  
 cgacggtggt gatggagtgc tggcactgtt 330

<210> 29632  
 <211> 511  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29632

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 atgaattgcc gaatctccac tcaaacagaa tgagactaat actctcacat aggtcaatat 180  
 aggggtccatt aatatgtgat gatgtgaaat gagatgaaca tgtgtaagtg tgatagccat 240  
 gatgatttga cgcgcgagaa ggatgtacta taacaatgat cgtgtaacat gacatgcaat 300  
 ttcatgagat ataaatgatg gcgatgatca gactagtaat gaatctaatt aaagtataca 360  
 aagaattatg gaatacaatg tgacagagta agaaaattcc ttcgacgtga gtttgactag 420  
 attatatgcg taataaactt gtactctatt agcactctct agtattagat taacatagct 480  
 atagctactc tacatttata actattcatc t 511

<210> 29633  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29633

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 cgatatatta tgcacctgaa tcggacctcc gagtgaaaag ttatgaccat ttgaatttct 180  
 cgagagcttt cgttggttcaa tatcgagcgt ctcgatatag tatgcgccgg aatcggacct 240  
 ctgagtmana agtaatgacc atttgatttg ctcaaaagct ttcattgttc aatttcgagc 300  
 gtcttgatat attacgcgcc tgaatcggac ctccatgttg aaagatatga ccatttgaat 360  
 ttctcgagaa gcttcgttgg tcaatatcga gcgtctcgat ata 403

<210> 29634  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29634

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 tcttaagaag ggggggggttg aattaagata ttcgaaactn tntcttctaa ttaaaaatct 120  
 atcttacttt gtacttaagt tatgaattcc cttaaagaca atcttcttaa atattaattc 180  
 aatgaagca acttgaatat gaatataaag caataataaa taaaggagat taagggaaga 240  
 gaaaatgcaa actcagtttt atactgggtc ggccacaccc ttgtgcctac gtccagtcctc 300  
 caagcaaccc gcttgagagt tccactaact tgtaaattcc ttttacaagt tctaaacaca 360  
 caaggacaac ccttcctttg tgtttagaga ttctttacaa caagagactc acagtctctt 420  
 aatcccttag agaatgagaa gaa 443

<210> 29635  
 <211> 226  
 <212> DNA  
 <213> Glycine max

<400> 29635



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 acgacaccac agcgcatatt tcgagataca ggctctggag gcagcaagag gaggacctct 120  
 gcagagaacc ctatggtact atacatagag agagattagt gagctgcaca gtgatagtga 180  
 gaagctgaga atatgaggag ggatccccct tcttatgtaa tgaaca 226

<210> 29636  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<400> 29636

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 tgaatctctg ctgaccattg aactgtgagt gaacgagctt aaaagcaaatt gacctcttgt 180  
 gaagcttcta gaagcaatgc ttaatgcagg aaatcgaatg aatgcacgaa ctgcaagagg 240  
 caaagctcaa gcttttttca atgtggcttc tctaaggaag ctctctgatg tcaagaccac 300  
 caacgg 306

<210> 29637  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<400> 29637

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 tttcacgtgc tgcaaacatt gcttttagta tcagcgatca acacttaaac aacagaaatt 180  
 taaatgactg aaatctaagg actaacaagg cagaaactag ataattgaca agaactatat 240  
 aactgataaa ctgattgtt catgatttgc aaaatttctca ttactatgca gaattgagaa 300  
 ctactgatca tctgtagct gatcgataga atgctcgctc agatctatca ctgaagaagc 360  
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 tctatatatc ccgg 434

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<223>      unsure at all n locations
<400>      29638
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atttcactcg gaagtcctat tgagtcctgt aatatatcga gacgctcgaa atttanaatc	180
gaagctcgta gaatatacga acaacaataa cttttcactc agaagtccga ttgagtcccg	240
taatatatcg agacactcaa taattanaac ccaagctctc agatacttct aacgacaata	300
actnttcact cggaagtnct attgagtcgc gtaatatatc gagacgctcg aaatgtanaa	360
ccgaagcccg tagcacattc gaacgacaat aacattccac tcggaagtct gattgagtcc	420
c	421

<210>	29639
<211>	444
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      29639
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tattacggga	ctcaatcgga	cttcgagggg	aaaagttatt	gtcgttagaa	ttatctgaga	180
gcttgggttt	taaattttga	gtgtctcgat	atattacggg	actcaatagg	acttccgagt	240
gaaatgttat	tgtcgttcga	atntgctacg	agcttcgggt	taaaaatccg	agcgtcacga	300
tatattacgg	gactcaatca	gacttccgag	tgaaatgtta	ttgtcgttcg	aatntgctac	360
gagcttcggg	tttaaataac	gagcgtctcg	atatattacg	ggactcaatc	ggacttccga	420
gtgaaatgtt	attgtcgttc	gaat				444

<210>	29640
<211>	595
<212>	DNA
<213>	Glycine max

<223> unsure at all n locations  
<400> 29640

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cacntaaaga catgcgccgg gcctcaatct gactgcgatt agataagttc ttacgatctt 180  
actgacagca gaccgttctc tgttcatagc gatgcttcac gagatgcaac gcacctgaac 240  
cggactgcca ctagagaaga cagcaccatt tgaacgagag gagagcttgc gtaagctaga 300  
gcggagcgag ttactatacg acgcgccga acacgacttt gatgtgcaa gacatgacta 360  
atcgaactac acgagagcgc gcacagttca aagcagagcg acacagtata cgatgcactg 420  
gcattggagt gccatacgac acggccagac caactgagct gctcgatgag cttgcgcgac 480  
gcgtcgcagc ttagaatata ggactcaccg gacgacgccg atcgaaccat gtgctaatac 540  
acatgcggca aacacgaccg ggggttgaa atcacgaaca taccgtacat cggct 595

<210> 29641  
<211> 309  
<212> DNA  
<213> Glycine max

<400> 29641

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atctgttacg ggactcaatc atacatccga gtaaaaagtt atggtcgttt gcattggctg 180  
agagcttcaa ctttcaatat caagcgtctc gatatgttac gggactcaat cagacatccg 240  
agtaacaagt atggccgttc gtattggctc acagcttcaa ctttcaattt caagcgtctc 300  
gatatgtta 309

<210> 29642  
<211> 199  
<212> DNA  
<213> Glycine max

<400> 29642

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 acaattcacc aatatgtgt 199

<210> 29643  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29643

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 caatctctcc ctttttgatg atgacaagcc ctgaaatcaa cacaaactat attcaacatg 120  
 atagcccgtt cacacaaccc ttactcgcgc tatcttgtgc catgtatgcc taatgataaa 180  
 cttctaatacg atttctaacc caagtcccaa gtgctctcaa gatctctccc cctttggcaa 240  
 catcaacaag aactaagcag cacaatcaaa attcaaacag atcaaacaat aaaccataat 300  
 acatccagac attgtcataa ccataccaat cagagtcaag aaacataata tacctgcaag 360  
 attaccatat ctaagccata ataagcccaa ta 392

<210> 29644  
 <211> 59  
 <212> DNA  
 <213> Glycine max

<400> 29644

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<210> 29645  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 29645

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 tttaacatta tgcttgcct caagcaaaga aagaacagtt cacttgcct cacgtgacaa 120  
 agacagaggc cattcaaaag ataatggagg ttgattcatc aaggacatca accatatgaa 180  
 ctgaatatca tggaatgctt aaatcaacca ctactcacia acatgcagca ttccaaatat 240

aggagcacac gtattatagt cacagctgaa ataagctagt aagcatgata gaaatcaatg 300  
aaggatcatc atccaaaatc tcacagtcac tgtttcactc aaactcaagt gttgaagctt 360  
attccatcat aaacaaccaa cacaagttac aacctttgca tttaatcttc tatcatacaa 420  
ctatgaacac a 431

<210> 29646  
<211> 406  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29646

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cgagcatact ctatcagaat aacggtaacc agcaacgtga attacgcttt aggagaggt 180  
cataactcta gagcgagtac tatagctacg acttgtggct cctcgtatgg aacttaaaag 240  
ctaggatcgt cgataatctt taaataggag agcacctcta ctctcatag acgatcgttc 300  
catcattctt gagaactgcc aatgaggcca ttaagaatgc ccctaagtta tatactttca 360  
ctgcgcgact caccgccct tgaggaatct tggctgacca tcaacg 406

<210> 29647  
<211> 447  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 29647

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cccaacaggg ccatatagat atctacacac cctgcatac tacatgcacc accttcctat 120  
cttttatctg aatacttatt ccgtaacggt acgaaactct atgaatatcg tcccgatacc 180  
tatttttctt acgcaaggat acgaattctt actgatgatg tatccactct aacttagctc 240  
tagaacaagt tacggaaact catggatcgc gcacaaacat atattattca attcccggca 300  
cattagggaa tttcacgaat cactcacgct tgcttacatt tagattctaa gacagcacgc 360  
gacttcattt attgcacgct actcaacaaa taatcaccgg acgaaattag cgtatgacat 420

ccaccaccac catgtgcatt accacct

447

<210> 29648  
<211> 425  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29648

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cgagtggagg aacgccccgg catttacgca acgagcataa tgtaaaccctt tacggtttta 180  
aaagctctat agttaggcct aggctttaga gtttttcctt ttgttaagga tttgtgtctt 240  
ttgttttgaa ttataatac aaggatcttt cttcatctgt tctacgtct ctacccattc 300  
tcattcattt gcctgtttac ttctttntct gataatggca gatccgatga cgagtcccc 360  
gaaggtacta atacctgca cccgcctatc gacttcgagc aagatattag tcatacgga 420  
gatca 425

<210> 29649  
<211> 462  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29649

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ctaccaaatt ttatgattct ttntctcttc atcttttcta aaagtcttgt tcaatacttt 180  
ctctttcaag aaaagttctt tgatcaaaaa cttgtgcttt tcatcttttt cattctcttc 240  
tccctttgcc aaaagaacga aggactnaac cgctgaatt ctttgtgtct ctcttctccc 300  
ttacaaaaga ttcanaggac taaccgcctg agaattcttt tgattcttcc ctctccctta 360  
nacaaaagat ctcaaaggaa ataaccgttg agatatcttt tgtttcccca tacatagatt 420  
canaggacta accgcctgag aattctttgt cccaacacat tg 462

<210> 29650  
 <211> 588  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29650

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 acnnnnnnnt cgcgtgaccc gttgttgaca cctgctatt acgtgaacta tanaatactc 120  
 aagcttctgc tgcagagaat catagcctct acgactatta acgcgaggga ttgtgttact 180  
 gctactggat ggcctgagcc ttcttgctca catcatgaga aaactaaccg acaatgatag 240  
 acatgggtat attgacgtat cacagcatga tgattaatat tagatataac tcatatggta 300  
 atgatcatac ctactaacia tggctcttac gattctgtcc taaacggact cactttacct 360  
 tgctgatgcc gtatcactca tagacagcgt cctccacact gttgtgatca gctggaatga 420  
 ctcatTTTTCT cgtgagggtt gattaatact tcgtgcatat ctgcaacaca accatgcagt 480  
 agctggctta gcatactact atcggatgcc tctcagatgt caaatactgc ctgacatcat 540  
 cagatacggg ttattaggat aataatgatt atctggtagt ggtgacag 588

<210> 29651  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29651

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 acaagctctn gatcaggaga ggtggagaaa gttgcaacgg aggtgacaac aaaagtgaag 180  
 gggataaagg caccactagc aatggaactt ctctcttga agacacgtta atcctacggc 240  
 ttgaaccaa gtcagagggtt gcaagggttg aacctcgcan agaattctca gagtcaagcc 300  
 cgagataaag caacttanag gaatgggtgg ggaaggccaa tgggtgcggct ggcaagggtc 360  
 tcaaacttga agaggtaagc attgatggta ctacact 397

<210> 29652  
 <211> 468

<212> DNA  
 <213> Glycine max  
 <400> 29652  
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 gttttcacta tgcgaggtat ttgcttggt tctatgtag tttttgacat tccaaattaa 180  
 taattggtgg atattttctt aggttctatt tgtggcatta tattaattct tcaattatgg 240  
 tatattttgc tctttcatat aataatattt caccatcct ttacggtgag ctgcatctga 300  
 tgtttcttta ttataattgc tggaatatag aggggggaaa ttaactatga accgtgtttt 360  
 gcaaaatgga aaatatggaa taacatgtat atggaatggt aaatgaacat gagacagtga 420  
 ccagttatgt ttatgacaca ttgtgaatga attgtttgtc gtcatggg 468

<210> 29653  
 <211> 363  
 <212> DNA  
 <213> Glycine max  
 <400> 29653  
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 ttgttttatt ccgcgggtct tagctttgaa cgtggggata agcttctgaa tggcaaaacg 120  
 cccctccttc cgttatcaat gttatatatt gaggaccagt gtcaccaacg actaactacc 180  
 ttttttttgc ctagattatc tacatcgccc ataaacttat cagacaacat cacttgata 240  
 tgtcaaagac catagattct aagacacact tgtttccgtt atgactcccg tgacggacca 300  
 tactctgatg ctcttccac tactgatgca tagatccaga ccccaaata gatagcatct 360  
 acg 363

<210> 29654  
 <211> 560  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29654  
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 tgcenaccta acagaagcga tcttatagac agtttcagtc atgatgttgt gccatcaagc 180  
 cttggcggca gctaaagaag gcccgttaatt gctatgttgc gacaggtgtt cattctggaa 240  
 taaagcaaag cacgctctta tgtggacaga ggcgattcca acgtgactct tgctgaagat 300  
 gcgtgacgtg tcaagtgtgc gatcatctct agacggaaaa cggccctgaa tggcgtcact 360  
 gagaaggtgc ggagagttag ctgtacatat ggatggcaga gctattttga aaggtattga 420  
 tgcacacaac agacgtcngg cactgctgtc atacaggcca ataatgggtg ggtacagata 480  
 cactgaaaga agtagccaca aatgatctgc gaggacatgg taacatcgtg cgaggcagaa 540  
 ccgatgaatt cttgagcacg 560

<210> 29655  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 29655  
 aaggctaagt tttcatgttg ctctcctat ctctaacaat attttcatgg cacaaaacat 60  
 atatatatat atatatatat atatatatat atatatatat atatatatat 120  
 atatatatat atatatatat atatattaaa gtgagttata ttattttcaa ttaaaagggg 180  
 ggtctacaac aattaaatta aaattgtatc aaaagaaatt actactaagc aattaaaatc 240  
 gcacaaaact ttcttttagtg tattattgta ttaagtatat tattatagtg tgtctataac 300  
 atgttgatca acatcgcggg aggatacaag atatatacaa taatgtgtat aatacaagca 360  
 cgcgaagaga atattatttc gagtacaatt cacgttctat aatagagcgc actatatgcg 420

<210> 29656  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<400> 29656  
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 aacattaatt ccccgacaat caagtatgca ctaagagaac aactagaaat gcattgcttc 120  
 aaaatttcat caccattcaa caaaataatg ttaaccttaa cacatgaatc taccatataa 180



ctagagtgcac ttgttcaactt attgttggtt gtcatagaag tcatgtctag tcat 414

<210> 29659  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29659

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aatganagaa actgttcagg ttctcgaana agaattctca aggacaataa atattttaaag 120  
gattttcaat taacagatta agtcaaatga ctcttggtct tcacaactca ttttttactc 180  
tcgagaaagc caacttttaa gaacaaaaac atgctaaacg aatatgtatg acaatttaaat 240  
gacttatgca aaatgcaatg cgtgaatata ataagtggta aatacaggaa tgatatgttc 300  
attatgatgc catgaagaga tgcattgatg gtgttgcaac ctacccttcg gcgggagggc 360  
gacgcgagac tcacgggagc atcttccaag gaaggaaaac gcgcggagtc gccaccaaac 420  
gttattcgag gaaaatgtc 439

<210> 29660  
<211> 537  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29660

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gtgagcttgg acatagcaac cgacaacccc acgtccgcga gccacttaga ccgcactgca 120  
tttctattc ataaantact tacaggcgca cctgcggtcg ccgagaaact ttacatctga 180  
tctgaacaca aggatacgtt cctgccgaca aaccataatc atgcaatgac acgctctaga 240  
taatgagagg tggacaacgg tgcaacggct gtgaccacct aaactaccgt tatataagaa 300  
cccacttcac gagctactac tcctccgtga aaacacgata aattgttggt tcgcaccact 360  
agacagaggt tagaacgtat gaaactctc actaaactca ttatcgcacc acatatacag 420  
cttcacaaac gagtggaggt ggaaagccat tgatgttgta gagcaggaat ataactaga 480  
aacagtagac tagaaatata caacaggcaa atcttaacaa agctcttttag ggagccg 537

年次	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022																																																																																																																																			
人口	1,200,000	1,250,000	1,300,000	1,350,000	1,400,000	1,450,000	1,500,000	1,550,000	1,600,000	1,650,000	1,700,000	1,750,000	1,800,000	1,850,000	1,900,000	1,950,000	2,000,000	2,050,000	2,100,000	2,150,000	2,200,000	2,250,000	2,300,000	2,350,000	2,400,000	2,450,000	2,500,000	2,550,000	2,600,000	2,650,000	2,700,000	2,750,000	2,800,000	2,850,000	2,900,000	2,950,000	3,000,000	3,050,000	3,100,000	3,150,000	3,200,000	3,250,000	3,300,000	3,350,000	3,400,000	3,450,000	3,500,000	3,550,000	3,600,000	3,650,000	3,700,000	3,750,000	3,800,000	3,850,000	3,900,000	3,950,000	4,000,000	4,050,000	4,100,000	4,150,000	4,200,000	4,250,000	4,300,000	4,350,000	4,400,000	4,450,000	4,500,000	4,550,000	4,600,000	4,650,000	4,700,000	4,750,000	4,800,000	4,850,000	4,900,000	4,950,000	5,000,000	5,050,000	5,100,000	5,150,000	5,200,000	5,250,000	5,300,000	5,350,000	5,400,000	5,450,000	5,500,000	5,550,000	5,600,000	5,650,000	5,700,000	5,750,000	5,800,000	5,850,000	5,900,000	5,950,000	6,000,000	6,050,000	6,100,000	6,150,000	6,200,000	6,250,000	6,300,000	6,350,000	6,400,000	6,450,000	6,500,000	6,550,000	6,600,000	6,650,000	6,700,000	6,750,000	6,800,000	6,850,000	6,900,000	6,950,000	7,000,000	7,050,000	7,100,000	7,150,000	7,200,000	7,250,000	7,300,000	7,350,000	7,400,000	7,450,000	7,500,000	7,550,000	7,600,000	7,650,000	7,700,000	7,750,000	7,800,000	7,850,000	7,900,000	7,950,000	8,000,000	8,050,000	8,100,000	8,150,000	8,200,000	8,250,000	8,300,000	8,350,000	8,400,000	8,450,000	8,500,000	8,550,000	8,600,000	8,650,000	8,700,000	8,750,000	8,800,000	8,850,000	8,900,000	8,950,000	9,000,000	9,050,000	9,100,000	9,150,000	9,200,000	9,250,000	9,300,000	9,350,000	9,400,000	9,450,000	9,500,000	9,550,000	9,600,000	9,650,000	9,700,000	9,750,000	9,800,000	9,850,000	9,900,000	9,950,000	10,000,000

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tgtcatgtag	ttaaggaaac	aacaaaagaa	aaagattgtc	aataacaagt	caaaatatgc	120
acaaaaaaag	aagtttctat	tagtacctta	gaaaccataa	atgcacacaa	attgtgagaa	180
ggtaaacaaat	tgcaataact	gactatggga	taaatagaat	aaagaagtaa	taagcaaatt	240
agagaggtca	caatgcacta	ctattagacg	ctcatctgag	actaagaatc	aagcacaaaa	300
caatacccaa	aacttcaaac	actttaatca	agcatattac	agtggtcaca	aactcacaat	360
gcacggtcac	cacatatagt	aagttactat	cactaagaag	agaaccgatt	aatggccaaa	420
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<223>      unsure at all n locations
<400>      29662
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<210>	29663
<211>	417
<212>	DNA
<213>	Glycine max

<223> unsure at all n locations  
<400> 29663

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taacttgggg tctgtcttc atgattttta agtttaaatgt gctaagttgt ttcaagtttg 120  
gtctttggca agtgtgtaca aagatattca tgacccgcta attaatagga aagattcaac 180  
acctatagga tatgaagaaa cttttagcgt attgctaaat tgctgatttc ttaatatgat 240  
gaaagactaa ctcaatgatg tctactccaa tatcaatgat atagagtctt gggaaattga 300  
gggtttttgc ttaaaaaaat tcanatactg aaagttttat ttccttaata tcttggttct 360  
ataaagattc caataaacia gaagaaaaga gacacttate ttcanaaat tatattg 417

<210> 29664  
<211> 104  
<212> DNA  
<213> Glycine max

<400> 29664  
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ttggggctct ggttttatga tatttaaatt taatgtgcct acct 104

<210> 29665  
<211> 357  
<212> DNA  
<213> Glycine max

<400> 29665  
agcttgcact gtcaacttag attgcttaaa atattgccgt gcttggagaa cctatagctc 60  
aacagatgcg tcacgctcat cttgcttact ggagctgggc tatctaactt cccatatacg 120  
atcatatgtg ctgtagccac tctgaactac ttcgacattg atgacactga cagcacctgt 180  
ccgatagcta gactagatgc tcttcactat gccgaataa cagagatcac ctgctgaaac 240  
taagatgcta gcaagaccta tattggtttg agaattaaca tgaattctta tggagaggat 300  
aactctaact gttattcgtc ataaagcadc tgatgctcat tatctggcat tgccac 357

<210> 29666  
<211> 77  
<212> DNA



<210> 29669  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<400> 29669

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 cttgcacttg aaaagatatg accatttgaa cttctcgaga gcttgcgttg ctcaatatcg 180  
 agcgtcttaa tatattatgc gcttgaatcg gactttcgtg tgtcaagtca tgactatttg 240  
 aatttcttga gagcttgctg tgttcaatat cgagcgtctc ggtatattat gcgctggaat 300  
 tggactgtca tatgacaaga tttgaccatt tgaatatctc gagagcttcc gtgaccgttc 360  
 caggtttaaa taagaagaat caccggacga cgccgatcga acattgtcta gtagacatcg 420  
 tccaaatatt atcggcggat tgaatatata aaacaatacc ggaca 465

<210> 29670  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 29670

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 ttcatcaaag ttatgacaag tgttacacat gtttctatgt atagcctagg tctaacta 180  
 tatgaaagct ttcttgagaa gctagagttt aactacacac actccctcta atagctaagc 240  
 tcatctccat gaaaagcttc cttgagaagc tagagcttag ctacacacac ccctctaata 300  
 gctaagctca ctcttatgtc aaaatacatg ataatgctta gctacacaca cccctctaata 360  
 agctaagctc acctctatgc caaaatacat gacaatacaa aaaaattccc tactataaag 420  
 actactc 427

<210> 29671  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 29671

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ttctactcca aatcgngaaa ggagagcatt ttcggtgacg tgaagtgcgt gaatacgagt 180  
gggacttcga aaatacaggt taggggtggac tcacttctct cttgatttca tgagtatggc 240  
gcttacgaga tatgatgggc agacttgcta tggtactgct gtgtgatgat tatttgagaa 300  
gacattagct gaagcttgat gaaattgcc a tgattgtatg acttatacat acccattatg 360  
gtcaaggttt taggacgatg ttcgtatgct atatgcaaaa tgctatggaa actgta 416

<210> 29672  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29672

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tcatcgcatc aaatagacaa aatatatcat aagatataag tctcacagtt cataaataga 180  
gagagccaca cagtcaaaat aagcaaaacta accatgaatg caaaaacaaa tattgaaata 240  
aataatacca ctattatgtg tagtgcagct ttccaacttt tgtacctaac tgaaggagac 300  
ttgtcaatca cttgagagcc tgtagcagat gcaatactgt aattaatgaa gcttcattgt 360  
gagaactgtg gtacaaccta tagtgacaga caattagtca tcattata 408

<210> 29673  
<211> 470  
<212> DNA  
<213> Glycine max

<400> 29673

gcttgatgata tttatactat atatgtgtgt gtcttcgttt atctctacct gtttaaaaat 60  
gtgttaattc actcctcatg tgttggttat gtttgatca tgtgatgatc ttaaaccttg 120  
cgtttgatgag agcaaatgac taggtgaatt actttaagaa accttgatgat gaaggactcc 180



gagacacaat attttgatag gatgtaacat tggaacaaga gtttctatct taattgcatg 240  
atgtatcaaa catgtcattt tactctatct gataaacttg aacagtcttg ttttaagtca 300  
taaataatttc taagacattt tatttggtaa cagtgaagcg aatgtgaaca ttatccacgt 360  
gaacttattt acgatcttat tgaataaaat tgatttaatt agattccgca ttgtatatat 420  
gtttctttca tatatatgta tgttggagta caatgtgtga gagacatctt 470

<210> 29674  
<211> 418  
<212> DNA  
<213> Glycine max

<400> 29674

agcttgctct gtaagtctta caaacttact ctgcaagttg taaaaatttg ctatgcaact 60  
ctcataggtc tctataaaat gtacaatgta actaaaaatg tttgggaatg aaattaaatg 120  
tcacacttcc gcaaatttta cgcaatgctc tctttctctt actctctatt tctctctcct 180  
tctatctttt agtttcaatt cattactaat agatgtcatc cctctctttt tgtgtactca 240  
aagtcagaat ctgtaatgta cagtctaata tatgtagagg atatcatagt cactgcaaat 300  
gactctaaac tgatttataa actagtttac ctattttcct tacaagatca tggagatctt 360  
aattattttt tgagaattga agcagctaata taagttgatg gctcacatat acttactc 418

<210> 29675  
<211> 468  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29675

tgactcgagt tatcaagaga ttataaatat gtggccatgg cataataatc catcatcttt 60  
gaataatcta tctttcaatc ttctctcaac atcattcaat atctttcaac tctttctaca 120  
taattttctg attcatttct ctcatcttt ctaaaagttt ttgttcaagc actttctctt 180  
ccaagaaaag ttctttgttc aaaaacttgc gctattcatc cttttcattc tcttctcgct 240  
ttgccaaaag aacgaaggac taaccgccta aattctnttg tgtctctctt ctcccttaca 300  
aaagattcat aggactaacc gcctgagaat tcttttgatt ctccctttc cctatagcat 360  
aatatttcaa aggactaacc gcctgagata tctttgtccc aacacattga agggtagatc 420

ctttgtggta caagtagagg gtacatctac tncgggattt tataactga

468

<210> 29676  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29676

agcttcgtcc gcagatccct catgtaagac taggcctaaa ctaaacaaca ttactgtaac 60  
agcataatta aaacccaaaac ttaactcgca gatccctcat gtaaggctaa gtttcaatcc 120  
tgcttcaatc aagtttctaaa gcaacagtac atttcccaat gctaaagtca cctaactatg 180  
cacacaaatg ggtgatcaga ccaaaagcat acaaacatta agcattgaag gaagcattga 240  
acacaaaaaa cataatcaat tagatattgc gtatttacat caagtgttca ttaaaaatcc 300  
tcaactaggg tgttttagcca gccattacaa agaaacccta ataataaatg agattaanag 360  
cagagaatga tagttccata cataagacag nggattcctc ctcctcttct caacatctca 420  
cac 423

<210> 29677  
<211> 338  
<212> DNA  
<213> Glycine max

<400> 29677

catctatatt tgcatatgat gcgcaagaac ttatttccaa acacaattgc tcaacattct 60  
taaggctcaa gtcctctta taccaataaa aagaaatgtc tggttaacttc attcccgtgt 120  
acttctcata cccatatcca ccatcacaac ttaagcgtat tttgatagat tgttctaate 180  
tattattggc tcatgtaatt atagaatgac tttaatgata agatggttgc tagacttata 240  
tgtattaaag tcattgggag ttatattagt ctttagaatt agttccctct cttctcattt 300  
cattaacggt aatttttgga ttaaagacca aaaacttg 338

<210> 29678  
<211> 341  
<212> DNA  
<213> Glycine max

<400> 29678

agcttgtaat gataccttga tatttcactg agaaatcaga gaccctaaat tatgatgatt 60  
acaaaaaaat gaagataatt caagtaaata taaaaagagt acatcataga aagaatatta 120  
caagaagagg gtaagagaga gtcttcgggc attcttctta catgtttata tgtcataacg 180  
agttaaagat tatctaakat gaatttataa atgcaatctt agaaaaaaaa aagaataaga 240  
aagtatacat ctcatgtcat tgtaattgag atataaaaaa tagtcatatg acaggagaca 300  
atgggtttcaa tgtattccat aactatagct ctttgagatc c 341

<210> 29679

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29679

tggcaggcac atgcacaagc acttggtanc tcatacaaaa tatacaaggc ctacattcta 60  
aatgccgttc attcatagtg agagagtctc acagtttata tataaacgga gatatcatca 120  
tacaatttcg tctcaattag acaaccaaca tgacatgaga aatttatgaa tgaaagattg 180  
ctatttgctt tttctttgta aggacaggag atgggtacccc aattcataga agacaaatan 240  
tctttaggct caaagaacat tcctagaaga cttacatttg tctcacccca tatagacaat 300  
tcagacgagc aatgacttaa aactataacc tgtttgatgc aagaccttat cttgttccat 360  
ctgactaata tcttggtcgt aaagatcgct atatgt 396

<210> 29680

<211> 416

<212> DNA

<213> Glycine max

<400> 29680

agcttggaga gaatgcttca atggaggaaa agaaagaggg agagaaagag agaggggggg 60  
agcacgaaat tgaaggaata aaagaggagg agaagtggaa ctttgaagta tgtctcacia 120  
gactctcatt catcaaagt acaataagt ttacacatgt ttctatttat agactaggta 180  
gcttccttta gaagctttct tgagaaaact tccttgagaa gcttctttga gaaaacttcc 240  
ttgacaagct agagcttaac tacacatacc cctctcataa ctaagctcac ctccttgaga 300



gttcacttc tctccctctt ttattccttc aatttcgtgc tccctcctct ctctttctct 180  
 cctcttttct tttcctccat tgaagcatcc ttccaagctt cttatccaag gctcattccc 240  
 tagtggatgg cacctcctct cacctcttct cctttgtctt ccgctgcac tccatgggtgg 300  
 aaaatcacca ttaaaggacc tcattgaagc tcaaagatcc agcctccata gaagccccac 360  
 atgcaagctt acatcataaa cattntccat aacttgata gctgccaat ttatgggttat 420  
 tctgtagtga ttctgtaaataaatcttggt tta 453

<210> 29684  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29684

agcttgaaga agttttgatc tgcacattaa aggtgtacat tcaatctaata tttgatttct 60  
 ttgtaaaagt ttaattcttg ctagggttac caatggattt tgagttgata gggtttcaac 120  
 tcttggattt tctctttgat gcaatcctcc ctatgaagg accagttact agatccatga 180  
 gccagaggct tcaagaggat tgggctagag ttgctaaaga aggccctatg gttctcatga 240  
 acctcaaggt agatttctga gcccatgggt caagggtggg tccaattatc tttgtacata 300  
 ttagattang atgtcattat atttggctct tgtatttacg actccataat at 352

<210> 29685  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29685

tcacacaggc aagtgtttca tctcaattcc aaatcacaga tatgtcaaata tgattttgaa 60  
 gtcatttccc atcaaataca ggataatgag cataatcatc atggatcaat aggtcttttc 120  
 aagggtggac ttgtaggaaa ttttggcatt ggttgctttn ggtttctttt tcttttttgt 180  
 tttggtgttt ttgtgtgca taagagagca ggcataaaga ttggctagt agcttaaaat 240  
 aggcaatac ttctatcct ttcatgcctt gaccaagttg tcattatttt tcttccattt 300  
 tgcttttttc aacaactcca cacatggntc agatgtttgt tattataaag aacttattct 360

tcttctctat tttcctttt

379

<210> 29686  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29686

agcttcatca atgaaacaag gaaccctttc cgtcacggag tacttcacaa agcttcgtat 60  
catatgggat gaaattgaga acttcagacc tgaccccact tgttcttgca ccatcaagtg 120  
tacatgctca gtcctcacca tcattgcca acggaaatta gaagaccgag ccatgcaatt 180  
cctatgagga ttaaacgagc agtacaacaa tgtgagatct cacgtgttgc tcatggaacc 240  
catgcccacc ataccaaaga ctttctctg tgtagcccaa caagaacgtc agctatcaat 300  
tccttttcaa atctcaatct tgaatcanaa gaaaacgttt ccattaatgc cgtcaagaat 360  
acttgtgaat tctgcgagc aaatgggtcac accgaaagcg ttggtacaag aaacatgg 418

<210> 29687  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29687

ttccaaanag agttactaga gacatgttag taagatctct tgattatgca attgttggtta 60  
cttttggttg ccattgcctg cttaaacatc taaacactct gttaatgaga tcttcaatag 120  
gaaatatttt tcccagtgat gcaagatgat taactatatt agtaaactctc ttttgcata 180  
cttgatggg ctcatattga ttcattctaa acagttcata ttcattgtgtg agagtgttta 240  
ttctagatct cttaacatca gttgtgcctt catgggttac ttgtaatgta tcccatattt 300  
cttttgcatt tttacaattt gagactccaa aatacttctc cattcttctc taagtttttc 360  
tatcagtga tatccacta ccattgcagg aatgaaggga ccaatgtcaa tgggttccca 420  
tatatntaaa tctatggctt ctata 445

<210> 29688  
<211> 175  
<212> DNA

<213> Glycine max

<400> 29688

agcttataat catggttacc tcgaaagaga atgaacggtc agattagaag ttcgttctct 60  
atcgaaacca caagccaagt tggaagattc tgcttcgggtt gaatgggtcc tctcgggtgcg 120  
tgtttcaatg gagaacaatg atggtttgtg gtggctaata gtgggttggtg gtgat 175

<210> 29689

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29689

ntagcagatt caaatctccc agtgagtgc ttcacatctc tgcagaatc actntcttgt 60  
tcaactctctg tatcatcaga ccgacttaca ganagtcctt tctctgctt cttgagatga 120  
gtgggacatt cagctttgat gtgtccaaag ccttcacacc cacggcattg aattcctttg 180  
ctgtgactgg gcttttcatc tgaccttttc tggattcac tgcctttcct gatgtcgaaa 240  
gggatgttcc ggacatgtgg tttctgcctt ctgtccattc tgttcatcac tttgttgaac 300  
tgctntccaa ggagcacaac tgcattagtc agaccttcat cagtttccag gtcataactca 360  
tcttcttctc cttcatcatt ggacacgaaa gccaaattct tgctcttctt ttcagcccta 420  
tccgagagtc ct 432

<210> 29690

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29690

agcttgaaca tttcanaata tcatgggatg tatttgacac aaggtacact gatattcaca 60  
taagttntcc ttcaagtttg aaaaagttgc atcttgaagg ctttctgac caaaatattc 120  
cagaagccta gcaactacc tgaaggattt acacaactaa atataacagg aggaaaactg 180  
aaaagtttgg atgatggaga aaacgataat attttatggc atatgcagat cgtgcgtctc 240  
aagtagctaa agcttttggg tattaacttg acaaatttac aagagttgtc tcctttgcta 300

aggatatgcag aaataaaaaca aatcctacac cagtatatatt catttacgag tataattcat 360  
 tatgccacac atatataaat gtgtacaaac attatgtaca tcactatttg ttataataaa 420  
 ttgaa 425

<210> 29691  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29691

ttttcattat atattagcat ttcatttgcc tccttacatt tgatgcatca ttggtgtctt 60  
 ctagcagtga tgatatgatt tttataagat aaccaaagt ttacttcttc caaaattgag 120  
 gtgtttgttt gggttgtaga aatcttcata tttgatgtta tgcttttacc ctttatttca 180  
 atgttgattg ttctttcatt gcctcaccag acaagatcta agaggttctt ggaaattcaa 240  
 caattgaggg agcataataa agagtatgac atgaagacaa caatatattt ggttaaagaa 300  
 acaactaaaa ccaagtttgt agaaatagta gacgccatt tctgcctcaa cattgacctt 360  
 aaatataacg atcaacaatt aagagcaaca gtgagtctcc tgctacttgc ttgattatgg 420  
 tatatgcagt tacattgaan acgtgaggt 449

<210> 29692  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 29692

agcttcttga attcatgttt ctctcacgag aagtcaaagc tgctagaaga gaattcacaa 60  
 ctgtcgacca acgtggcagc ttgtgacaat aatgattcac acgtctctta cggagggaac 120  
 acaactaccc tgcattgatc tccatatgct gacattgcta gacctcttcc agctgtccaa 180  
 gtagagaata tgtctggtat aaatacaaag gtgtgtgaat ctggatcttt cagctacagt 240  
 gagaagttgg accatttgga tgatccacat gttgatgctg caaactcata tgaaaataca 300  
 atgacatttc tggaccttcc ttcattctat tctgcttcat ataatgcaca tgatcaacca 360  
 gaatctccat tgcaaaactta tggagat 387



<210> 29693  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29693  
  
 agcttcatga tgacgaatca agattaattc aagttgtttt gatgataaca aagatgatga 60  
 caaaaagctc acgagaatga tttcaagatt gagtcaagaa caattcccaa gagaatgatt 120  
 tcaagattga gtcaagaaca attcaagaat caagagaaat ttgatttcaa gaatcaagaa 180  
 tcaagaataa tcaagatcaa gattcaagac tcaagattca agaatcaaga gaagactcaa 240  
 tcaagataag tattaataaag gttttcaaaa cattgagtag cacatgaagt tttcacaaaa 300  
 tcttntacca aagagttttt actctctggt aatcgattac tatgttactg gtatcgatta 360  
 ccaatgacaa agcttgtttt caaaagcttt caacttgatt tac 403

<210> 29694  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
  
 <400> 29694  
  
 tgtaacgcca taagcaatgg cgagaaagac gatgccgcca ttgactacag cgagacatgc 60  
 tgtgactcac tgcccatgcc gccattcata ctggcgggac atgctgacta ggaaagatga 120  
 gcatctcgcc agtccttctt gcgagacacg agcccatgcc gccattggta ctggcgggac 180  
 atgccaacgt ggacagtccc gccattggct cctacgagac acgttcacgc catgcttaag 240  
 tctgaagatg cactgttga tgatgagact gaagcattgt gatgcatgct atggctcaaa 300  
 ggctagggct gtggttcaca tgcattatat gcagaggctg aagcattttt ttcgtgatgc 360  
 aggctagggc tagagttgta gttcacatgc attctgtgca agtatcacat gcatacagtgc 420  
 tagc 424

<210> 29695  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29695

agctttagg attatgggt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60  
gcacaacaag ttttccacat ccacaaagcg cgcataaacc caccatcccc tgttgccac 120  
ctccaactga gctcacgtac tcccacgtag cccatatacct cttttctctc aacaccgggt 180  
ccccatcaat cctcccaagc tttcccaaca tcaaagtaaa acgacattca aacagcacia 240  
gctatcacag ccaagcaaaa cagagcaaag gcagataact ctgccaaaac accaaccaaa 300  
tcacagcttt tctcacttan agactccaat aacaattcct tcgttccggt tcattaaccg 360  
ttggatcgac tcgaaaantt tactggaagt cttagtaca taagcctaca t 411

<210> 29696  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29696

tgctgccacg gagtnttccg actatgctct tgtgtggtgg aacatgctac aaaaggagag 60  
agcaagaaat gaagagccaa tgggtgatac atggacggag atgaaaaaga tcatgaggaa 120  
gcggtatgtg ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccba 180  
aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240  
tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300  
ccgtgatatc gttgagctgc aggagtttgt tgaaatggat gatttgcttc acatagcaat 360  
ccaagtggag caacaattaa taaggaaggg agtagtggct aagaggagtt ntaccaactt 420  
tggttcttct agttggaaag acaaa 445

<210> 29697  
<211> 326  
<212> DNA  
<213> Glycine max

<400> 29697

agcttgtaa ttaacttaga gaaaatcaag atcaagcttg ttcgcacatc gctcgtgtgt 60  
atgatatcca ctgcacaagg tttgaagtag aggaaacctt caatcctata acgcaacgtg 120  
gcggacaaaa gtgggcaatt aacttgaatg gccattattg tcaatgcgga aagtattttg 180

cgcttcacta tccatgttca cacattattg ccccaatata tagatgttgt ttacacaaat 240  
 gaacacattt taaaagctta ctccgcacaa tgggtggctc ttgggaatga agcggctatg 300  
 tctcctctaa tgacgcatgg acatt 326

<210> 29698  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29698

tcagtcaaaa gcattgacaa tccaatgcac aattaggtag gttgtaaagc tcaagcaaat 60  
 aacacatcaa tgtcaaaatt tgaagacgat taattaggtt gtaaagcaca atcattcaat 120  
 taatgcatca gaagtgtttt atccaatacc tagcttgaat catcaaaaca ccaataaaag 180  
 ccataaacac aatccaattc aattgcaa ataaaagggtgt cacaagcttg tgtgtatga 240  
 caaaccaaac atacaaagca atatccaagc caaagttgat ggctattgaa ggagtaagtg 300  
 cacctttgtc cttgaatata tataaagatc accctataaa aggaaacaaa tatacattha 360  
 gtaaaagtta atgttaagat cgcataactn gagagcatga gaacctagat gtgtagttat 420  
 atgcaagcat tcacaaagt 439

<210> 29699  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29699

agcttctact tatgtggcag ggcgggcttc cttcaccttc ttgtctcaa cggaacttt 60  
 gaccattggt cttccttccc ggcgtgcttc ttttcatgtc tgcttgagtg ggcttatagc 120  
 ctaaaccata cttcccacga ttaccttggg tatttatcag tctagttatg ccgccgttgt 180  
 tttttcctaa acccatcccg ggctcataac cgttcccaa cataactcgg gccatcatta 240  
 ccgctgcacg ggacagactg ggctgccccaa agaggaggat cacggaggat atgttgacca 300  
 cctcanaaga ctggaaagca gtttctaacg attcttctgc ggcttcacaa taaggcatgg 360  
 aggatgggca gcttaccaag atatcttctc cgctgacac gatgaccaag tgcccctcta 420

<210> 29700  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29700

atgaaacaac gagatgatgc gctccatgag aggctggatc aaatggagaa tagagatcat 60  
 actgaagaag aaaggatgag aagaggggaat gactgggttc ctagaacaaa tccgaattga 120  
 tggattaan actcaacatt tcctgcatat aaaggaaaga atgatcccgga tgcctacttg 180  
 gagagggaga tgaaaataga gcatgttttc tcatgcaaca actatgagga ggaccataag 240  
 gtgaagcttg cgcgcacgga gttttcgact atgctcttgc gtggtggaac aagctacaaa 300  
 aggagagagc aagatatgaa gagcccatgg ttgatacatg gactgagatg ataaagatca 360  
 tgatgaagcg gtat 374

<210> 29701  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29701

agcttttgagc tataatcctg actcaccata aaccttgacc canggtgaga atgtcaatcc 60  
 ttaccctcgg aagcaaaaaa aggaagagaa ggaaaatttc caagcaaaaa aaaggagaga 120  
 aggaaaattt ccaatcaaag gaaaaaaaga ggaaagaaaa tttccaatca aaggaaaaaa 180  
 gagaggaaaag gaaattccca atcaaagaat gggagaaaaga aaaaaaaaag agagaaggag 240  
 aagaaggaaa gaaagctcct gatcaaggat cgaaagaaaa cagaagacat gtgcataaga 300  
 acaatacggga attgtcacca aatgaacaaa agaaagaaaa ggaaatcata acctacaagt 360  
 ggtcttctcc ctgtgattac caatcaaat cctgtgcgtc ggtgacttgt tcgcctcgcg 420  
 tca 423

<210> 29702  
 <211> 441  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29702

tggatattcg gacctgacgag ggattgaggg tttagtaatt tatgctgcaa catacaaacac 60  
aagagcatga ttgattagag aaatatatatt ctatgcatca gcttatttgt tagaaagacc 120  
caacatatct acctactgtt gtcattttat ttaccttgca ttttatagct tttagcatac 180  
aagtttagtt tagattttgt ttgaaattat cacttataca tgttctctca acaatgcttc 240  
gattctgaac ttaattcagg gtaacattag ttccctgtgt tcaatactca gattcattcg 300  
ttttaatttt aaatacttgc tgatctgggt cgctctccga taaaccccgga tttacatttc 360  
cttgagacat agatgcacaa aaagtaactg caatggcgag tgagcanagt atctatggca 420  
ccattgccgg agaactaaat t 441

<210> 29703

<211> 249

<212> DNA

<213> Glycine max

<400> 29703

agctatagat attctatagg gattcagggc tgtccatcag ctctgataaa tctgccatat 60  
actcagccgg tattaggcct catgagctat ctcatattca gcagattact ggatttagct 120  
tgggtgatgt ccctttcaga tactcatgtg tttccctttt atcatctaga ttaaatgtat 180  
gtcataatgc tctcttgctt tccaagataa ctggcctgat tcaggaatgg agcaaaaagt 240  
ctttatctt 249

<210> 29704

<211> 459

<212> DNA

<213> Glycine max

<400> 29704

tagggttcaa ctcaatcaat cagatttaag ctcataatgg gtgcttagga ttcattcattc 60  
atgaacaggg taagctattt ggctaagtgg ctaattcaat caatcacaac ctcatcatt 120  
tccaaatcat gcattcatta agtattcaga gattcatgca aaaattggta ctcaatgcta 180  
gtcgttctct cacaattaaa gatcacacaa ctactgggt tatggctaatt gattacattc 240

actatattatc tgtcaaacaa actaacaatt tcactcacgc ccctaattca tgttctttct 300  
 cttctaatta cctcatactt attcaaagca cgtgatctaa cattgcaatt cactcaagtc 360  
 atgcaatcaa tcgatttcag aaccaataac atacaccaga aatttatacc ataacatacc 420  
 actgcataac aattaaaaaa ctgtaaactg gtcaaaact 459

<210> 29705  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 29705

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 atttctcgga gaaattggga ggagccagat tgaactattg cacctatgac aaagagttct 180  
 atgccattgt gagagctctt gatcattgga atcattatct gcgttctaata cactttatat 240  
 tgcattcaga tcatgagtca ttgaagtata tcaatgggca gcagaagttg agtccaaggc 300  
 atgctaaatg ggttgaattt cttcaatctt ttaattttct ttcaaaatac aaggatggta 360  
 agagtaatgt ggtggctgat gcactttcaa ggaggtatgc ttttaatttca at 412

<210> 29706  
 <211> 208  
 <212> DNA  
 <213> Glycine max

<400> 29706

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 tatacagacg ctcgaaattg aatggagaag ctatgaccat gtttatacga caatgacttt 120  
 ctactcata gggcgatcg agtcctgtaa atattgagac gtcgatatg aaataccgaa 180  
 cccctgagct ttttcaaacg actttcac 208

<210> 29707  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 29707

agcttttgtt atcacctaaa aaccattntt taaaggtcca acgccttgaa atggtcattt 60

tcgcttttat tgggttaaagc tggattttta aaaagcctaa aatcaacaca tagctttgtc 120

acctctttca aaaaaaaacc aagagatcat taatgggtcca atgccttaat attttctccc 180

ctttcaaaag aatcgaaaaa tcgtttaatg gtccaatgcc ttaaatgacc ttttattcaa 240

tcaaaatata tcttgcaaaa aaaggataaa aaaccaacgt ttagttctca nagaactacg 300

tangtatgat ttccttatca caattgagga atacgtagga gtaagggaaa cacccttgt 360

cgaccacaaa aagataanan atacanaagg cataaaagac ataaaaaacg ta 412

<210> 29708

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29708

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gaataacggt tgacaatctt tgcgaaatca cccacggaaa tgtcacggaa acgttacgga 120

agcgctccg cttggatttt cttcacggaa acaatttttc tcactaattg taagtgaatc 180

tcagatacca ggagggttga aaatttttgt tcttccctcc tccccctatt tataggaaaa 240

ggaaggagaa gcttgccacc cagctcgccc agatgagcta ggttgcttcc tccagaaggc 300

accacaatga tgcttgtttt gcacaacaat gctctttctg acttcagaa tgttgcgaaa 360

ctttacggat tgcgcaacag tgcttgtaa acatttcaga atgttacnga actatatgga 420

tngcacaaca attctcgta aac 443

<210> 29709

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29709

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tttgccacca aataataaca acaatgtcag atgtacgtgc aattggtaaa aaaaaaaaaa 120

aaaaccactg ctgcaagata aagcaactgt cattcatgcc tggccaaaaa aaccaaagat 180  
 tttggcaatg ttctctttgg ctttgggtctt tnggatggga actaatgtgg agctgagaaa 240  
 aaaaaggtgg gaattgacgg taacgcttac aaagacatga agaacaatca tgtgtcccgt 300  
 cgctttcaaa cgcctcacgg aacagacaca acaacatccc tagaaaatca ttcacacaaa 360  
 taaagctgaa ggctccaaat tttgaacgta gactnagcta gtgtactagg caaatgacct 420  
 cagtaagttc tatttttaaa c 441

<210> 29710  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 29710

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 ccacaaatct gtgaagataa gtcctcaaagg agagtaaaca gaaatagaag tgtgaggtgg 180  
 taatctatga gattttttcca tcagcaggaa gaacaaaaat cagaaaatat tttagtagtt 240  
 gtgggaaata ttacaatgat tgaagactag cttcattaca tgactattag gatgagctaa 300  
 cctagcatgc cagagactag caatactagg agaagaaaca acagaattgg aaaccacagt 360  
 agagttttca ttaaccgtag cagctgtaat agacaagcca gtatctgaaa ttgagta 417

<210> 29711  
 <211> 507  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29711

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 aatcgaacat ccgagtgaaa agttatgact ctttcaatnt ctcgagagct tctcttggtc 120  
 aatgtcgaag cgttcgatat gtgatgtgcc tgaatcggac ctgcggtgaa agtatgacct 180  
 ttgattttctc gagagcttac gttgttcaat gtccagcgtc tcgatctgtg atgggcctga 240  
 atcggacctc gcggggagaa gtttgaccat ttgaattgct cgagagcttc cgtcgttcaa 300  
 tttggagcgc ctcgatatgt gatgcgcctg aatcgaacat ctgagtgaaa aggtatgacc 360



gattgaattt ctcgagagct gctttgttca atgccagcgt ttgcattatt atgcgcctga 420  
 ttcggacttc cggtgagaag tcatggccgt gtgatttctc gagagctccc gtgggttcagt 480  
 tccaggctct cgatatatgt ggcgccg 507

<210> 29712  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 29712

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 gcaaatattg gggcaaaaga tggatcgctg tacatcgctt cttcgtctac tgccaaacac 120  
 atttagggcc gtcgatgtcc ctgttacttc cagtttcacc ttgacgaaga tgtcatggac 180  
 catgttgaaa atctaaattg attcaacccc atatcctgcg taaaaattcg caatacttca 240  
 gctgtgcac attcgcatac atccatgttg ttcattgggt gcattgctca ttgcattctt 300  
 tccttaaaaa aaaaaagaac ttaatcattg ttataaaaga aaaacatgat ttacggtgcc 360  
 ctcatcgaac ctgtgctaga gctagagtaa 390

<210> 29713  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29713

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 gngggagttt gcttgggtgga taatttaaaa ggtaagaaac aacaacacac acaacaaatt 120  
 aataaaatgt tctatgtgtt aaaaaaaaaag agagtagttc aaataaagtg tgtgtgcttt 180  
 tagaacaag tcaagtgaag gactagcgag taagctaagt ggattgaaaa gacaaattgc 240  
 gtaagtctag aagttgtgct ctcttagact tcaagctatt gcattctaga aaaaccaata 300  
 tttttttttg tagccaaacc tcaactacaag ctaataaaag tccttctgat tcaatttgtg 360  
 catttctaac attatggcat gagatgaagt acaaaaattg gacctcttgt agttgttatt 420  
 gtaaatagct tanacacttg tgcgtgagtg atacagt 457

<210> 29714  
 <211> 479  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29714

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 gctgcatgca agcttgagac tttacacngg tgttctttct tgacgagctt tacaaccgag 120  
 acggtcttat ctctaaccag actcccaacc actatgatac gcctgccatt tctgtaacag 180  
 atgactccaa agaagataac gttactgcac ctaacatcca ggacatacaa actactttat 240  
 ttactcgatc agtccactgc ncaatcattg aaaccatgaa atgcgctcgtt ggtgtgagat 300  
 agcacagtgc atagatgtct atgatcttta gcaccgagcg gtagcaacga agctcgcgca 360  
 aagtaatgtg tctacactgc caattacaag tgagaaggaa ctatcccgta gcgtggatac 420  
 ttctatctag gagttggcca acatatgatg gctgatgtaa actcagatga ttaagtatc 479

<210> 29715  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29715

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 tttatgtcta tttattgaaa gtttattttc ttgattgttt ttaaataaaa ggttttccat 120  
 tgaaatttat aatacatgag ttgacacatg caagcttata ctaattttta tggaagatct 180  
 tccttgttta attttatttc atagtgcgaa atcgccaaaa taatttatat ttcaacttat 240  
 ataaatctct catgaagttt aattttgttt cgttgtttgc aattgccaca ataatacagga 300  
 actgagcgtg gtagtagggg tgcttctatg cgtgcagcaa taaatgacac tgtccctgaa 360  
 ccaaatcgcc gcttactgca aaggatattg attgat 396

<210> 29716  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 29716

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aatccagatg gaacttgacac tgggatacga tataatggcg gtgacagtct gcttgaagtt 120  
ctcaacaagg aaactaatag aggggtatgtg cccttagcga tgagtatctg tgaattgtat 180  
ctctctcaca cgtgtgccgc tgtgccgagc tcagtgccag agaaccattt tctgaaatgt 240  
aatggtaatg aacaggaagt atcagaattc agctgacaga gtaacattga cacaggaatg 300  
ggcgccagac caaggatgtt gatgtgatgc aatactgttt tttgtaccga tgggtgcttg 359

<210> 29717

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29717

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ccaagaggca gccgctctga tattgttaat gcaacagtta attgctctta tctatgggat 120  
tattatcaga tcttgaggct gacaaataac atgctcttac aaaacaacat gcgagcatca 180  
gatcatgacg aaattatgac tcttgcacaa cggattatag atattgatga tgagattatt 240  
ggacatgaca atgatggcta cgctactatc gaaatgtcac atgaactatt attcacagaa 300  
tataatgatc ctattcatag catagttagc tctacattcc tagattcatg tcatcatcac 360  
agtgatcgtg aatacttaca attcacagca atattagctt ctac 404

<210> 29718

<211> 496

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29718

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acgcntgaaa ggaaagaacg tgcttcaatt ttatgagaca atccgccata tatagtagtt 120  
ttcagggccg atntacctat cccaccata ccccatatac caaaggctct aacttcttgt 180  
cggcgcatg taaagaatga ttcaatatgt gtacaatgct cctaaattca actagtcctt 240

tacgttgatt tggatatcaag aggcaattct tgccaaacat ctgcacaatg tccttaagta 300  
 tttaggatca gtcctatcta ttaaagggat acactataaa ataaaaatga tcgatgcgta 360  
 catatctatc aaatccaaca aaaagaatta tcccgatgcc ctacaatgat ttacagtcta 420  
 caacagaaat agtcatgata atatggtgtg cggagacata acaagatttt attaggaatg 480  
 aaaccctgct taaact 496

<210> 29719  
 <211> 287  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29719

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 tgggcaacag agctcgagtc tatacgattc atggccttca tcatgttctg agttatacaa 120  
 atcattctat aattcctaata gtaattttca gagttgccta tactatgggt gacgcgaata 180  
 tctaagataa ggatcatgag gaacttatat ggatcgctga tacaattgac ctaatgtaga 240  
 tgtcggatta aatgatagag agagagagag atatgatatc ggttatg 287

<210> 29720  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29720

agcttatagt ctttacttat tgagaacaat aagccaaagt caatagttcc tatataacga 60  
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 agtctagtag catatagaat gcctgatttg tgcacatcac atatcgana ctaccaccca 180  
 cactctggaa attattagca tccacctttt ctgcctcatt gaactgtgat aacttcatct 240  
 tgtactccac cgttgttcaa agtggcttgt agctatccat cttgaatttc ttgagcatct 300  
 tctat 305

<210> 29721  
 <211> 372  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29721

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ggaatacttg ttcgatcag aggatgacaa tccaaacaga atgacgcctc atgcaccta 120  
tgtggcaaaa ataaccatg ttaggtaaat tgggtcacaa atcaccattt ataattttac 180  
acgtaaacad gtattacatg gacaatctaa tgatatttaa gcggtaatgt ctcttaagaa 240  
gttttcaaac actttacttg ctactntcca ctgtgtttgt cacaccaagt actatgagaa 300  
ggcaatagga ccaattcttg ttgatcctat aactaatatt aacatcctat aacttcgtgc 360  
atttcacgtt ga 372

<210> 29722

<211> 372

<212> DNA

<213> Glycine max

<400> 29722

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tcggactctc agccacttat gatagccgcc aatgatccca ttactgcttc ccctaagctc 120  
tctgtccttt cttcatgccg catcccatgc cttgogaact ccttgagta ccttcgcgtt 180  
gtggtcacta aaatctcgtg cgatgaaagg cgtgattgat gcaagctcca ttggagcttg 240  
taggcctagg atcttcttca ccaatggatt cctttgcttc ttggaagata aatggcagcg 300  
gaatggagaa ggaagagaga gaggagacgc cacttcaagg agaagatgag tctagaagaa 360  
gctcaccacc at 372

<210> 29723

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29723

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tgtctaaagc aataatTTTT gctttcatgc tagaatgcga aataataagt tgttcagtag 120

atttccatga tactgcacca ccaactaaag taaagacaac cacttgtcga ttttgggttca	180
ttagaatcag aaatccaatt tgcatacta aaccctcaa ttacatccta atctaccaac	240
tgcatatgcc atgtcagacc cagagaaaagt tgtcaaatgc aacaaagaac caataatttg	300
aggatattta tgtgaaaaaa ttcttttact canacttttc ttttaacttaa tggatgagtc	360
ataagaagta gaaacatggt tcacatcana ataattaaac ttcttcaata gcttttcaac	420
ataatgtgat ggggttaaac ccatgtatca tt	452

atntccttgt	ttcctattaa	cacaacctgt	acctgcgcac	canaaagaaa	tgcaagaaga	60
ggtcgtatta	ttctcatgag	ccctangata	gattttgggc	ccatgggcta	agtatgagcc	120
cacttatctt	tgtacatatt	agagtaagat	ttcattatth	ttggatcttg	tatttatggc	180
tccataatgt	aggtagggta	ccctagaaat	gtaagattht	tcaaccattg	tattttatga	240
cacctagact	agtatttgta	ttatgggtag	ttctgtaatt	tcacatgcat	taagtgaata	300
tatgatgtgt	gtgttgcgaa	atacaattaa	ttgaatcgng	tgaagcccaa	tccaattaa	360
ttttataggg	ggagat					376

agctttgaaa agtgggtggtt ttcaccttct cgctaagcca atccgctgtc ttagcgagcg	60
tccgctaagc gcaacactca ttggctaagc gcaaggaaga atctggaaga aaatgagctg	120
taccagttcg cttagcacac tgtttcgtct cactaagcgc accgcttcag tccatcagct	180
aagcgagaaa ggcacgcgct aagccgaaat tcactaatgt gcgctaagcc ggccagaatt	240
gcgctaagtg cacgagcacg aacaaggcca cctatttaag cttgaaatca gattttgtga	300
aggggagtttg ggctaggatt cagagctttg catgtctaga gattctagag agag	354

<210> 29726  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29726

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 tgataaattc tatgcaaaac gcatctccta aactaaaatt ccaaaaaatc tttttttctt 120  
 caaaaactac tccctacatt ggctccaaca ccaaccaatt aactctatca accatcaaag 180  
 catccaagcc acccaggggc ggaactagag aaaaaagtta agggagacga aaaaattaac 240  
 acatgattat gtaaaggaga catgaagaag aaagttgtaa tattaaactt aacatgttaa 300  
 aagctgaggg ggacaaaatt ttctattnta agtgcagtta ctaatgaatt gtgattnttt 360  
 aggagggacg gatgcccctt ttgagatgtt tgtagttccg ccottgaage cacca 415

<210> 29727  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29727

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 tggggagaga gaccagnaag acccatataa gatctttatt tatgtaccta tttatgagta 120  
 aatactatat gcattgatag tgtaaagagt ttttatataa taattcaatt acaaacataa 180  
 atttattgat ttttatgata agtatcttaa agtcagatca gcaagaattt atgtggaaac 240  
 taaactcttt attcattcac atatacttgg gtaagtgatt tttatgatta tttccgccct 300  
 taattaattc aggttgggca gataaaattc atgggtctaac gggctcagct gacgggaata 360  
 tcatgcacaa catcttattt ttttattatg gagaagcata tacttctact ttatgctgca 420  
 tgttcaagag aggtgtactt atatt 445

<210> 29728  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 29728

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tntatacatg caaaaactat ctttgtcagt tacataatct cttgatgcta gtttgggcat 120  
gactatgttg agcagaaaagt tgttgatgag cctgcacata tgtgaggtta gcggtcctca 180  
gaaagctgac caaacccttc ttataagatg attttggaca ctgttttcca tagagcatag 240  
agtccactgt ttcacaggtt atctccttc 269

<210> 29729  
<211> 375  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29729

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tgtaccctct cttggtttca gtcaaaccga agtagatgta ccctctactt gtgccacaaa 120  
ggatgtaccc tccaatgtgt taagacatag atctcaagct gttacacctt tgatactttg 180  
tgaatgggga tacaaaagga atctcaggcg gttaaccctc tgaacgctgt tgtattangg 240  
aatgggaaga ttcaaaagaa ttctcagact gcgtcgtttt gaattctttg acaagggaga 300  
agggagacac aaaagaattc aggcggttag tccttccttc ttttgtgaaa gggagaagag 360  
agacacacaa agaatt 375

<210> 29730  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29730

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ataggtagcc ttgttcgtgc ttatgcgctt agcgcaattc tgaactgctt agtgcacatt 120  
agtgaatttc ggcttagcgc atgcgtttct cgctcagcgg atgaactgaa gcggtgcact 180  
tagtgagatg aagcgggtgcg ctccagogaac ctgtatagct tacttcttcc agattcttcc 240



tctgtgcttag	taaatgagtg	ttgcgccttag	tggacgctcg	ctaagccagc	agattggcctt	300
agcgagaagg	tgaaaaacaa	cacttttcat	aatcgcctaa	ttaacctgaa	attgagagaa	360
aatgattatt	aaacacacaa	aatggaagta	ctaagtattt	attaactata	tt	412

<210>	29731
<211>	429
<212>	DNA
<213>	Glycine max

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aggacattag	cgcgagtgtc	atttactcaa	cctctgcac	caacatctgg	aacgatcttg	120
agaaacattt	caacatcaag	aacggaccca	gaatcttcca	attgcggaaa	gcattactca	180
attgtgttca	aggaacgaac	tccatcaata	tctacttcac	gcgattcaaa	gggctttggg	240
ctgagctggg	tgaactcaag	gccaatcaca	gttgtaatta	tggcgggggt	gctccacttc	300
ttgcttccat	caaagaggaa	tttgtcatgt	catttctaata	gggtgtcaac	gagagttttg	360
cccatgctag	aggtcaaata	ttgttgatga	aaccgattcc	ggatattgat	gagaccttct	420
cattattgc						429

agcttcatcg	tttggacctt	ggagatatgt	tgagaggcag	agcctctcct	agagcaaaca	60
gtagatggac	aagaaggtgg	agaagcatgg	atcgaaagga	aaaaccaatt	gtcgggatgc	120
acttcaacaa	ctatggatgg	gacaatgctg	gtgatgacga	aggagtatgg	actaaggtga	180
ttagtaaaaa	gaccgcgaaa	ggtttgaaga	agaccctgaa	ggctgacaat	caaacgcaac	240
acctagtggc	aaggggtaaa	cctacacgtt	accatatcaa	ctggaggggac	aaggatgaca	300
ttacgtcata	ctacttcacc	cattttcctg	acaaagctga	tgaagagttt	gtgtggaagc	360
attctaaaaa	atggggtgat	gtgagagaag	ttacatagcg	aanaggaaca	ata	413

<210> 29733  
 <211> 464  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29733

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 aactaacgca gtgctgttaa gatctttttt atcaccaa ataatcttata atcttgtgat 180  
 gcaattcagg gcattaaggg gatggaacac ccaatattgg cttagggtgg gcactaataa 240  
 gcttgtatct tctccccctt aaaggagtgt ggtagagtat gaattatcat gcacaatgtg 300  
 aagctagaan atcacctact ccctaaagt tgactggtnc tagtggaat atttgactg 360  
 gttaaattaa attggttga attntntagt ctaattatgt tcaacctgaa caaatgaat 420  
 cgatcctctn tgtgatttat aaactcgtcg gttgagtcta atta 464

<210> 29734  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29734

agcttcgatc ctgatcaagc ttgtcacata aaccaatcct aagcctagaa catgatctta 60  
 cacaaaccaa attggggcat gtttcttaaat aaaattgctg ggctcaaaat cagctccaca 120  
 tttcaaaatc gagagggata aaaaattaaa ataataaact aagtattggg acttggttag 180  
 gcttcctggg tcttaaatta aacatattat caaacaacgc acctatctaa ttgacattat 240  
 tcaccgtgtg tcataaatga attgatggac tacaatatcc aaattcaaca accaatatga 300  
 acaagactca natgaattca ggatagcata atgatccaaa ctacacaggtg gttacataaa 360  
 cgattatgta cgcactccgc tatcaaagcc actgtccgcc ttcaatgcta aacctgcctc 420  
 agcataatga 430

<210> 29735  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29735

ntataaagct ctatntaagc aaatatcttt aggcaatgtg ggactatatg cactccctgg 60  
 aagctgcaat taaggcagca cctgaagagt ctgcaattaa gccgggctag ggatgaccgc 120  
 cttactgtg gcttttcaac aataagctta taaaaatctt gaaaatacta cattcggggtg 180  
 caggagcaga attgcaatta tcaaaacatc aattatatta gttaccactt atcaacagtt 240  
 caacacttgg aactttngtt aatngaaaat ccctaagtat tcatttttgg ccacagttgt 300  
 aactcaacaa ttntccagat ttcagatata gaaaggcaat gcacaccaag ttgttgatgt 360  
 ttctgatact cttcaactca ttggtttcat gaatntccag cagatcagct tcagttntta 420  
 gacaagagta ctgcgcatcaa tcttctatca gatcatttgg ngggggcatc aattaca 477

<210> 29736  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29736

agctttgata ttttcttttc agcattctct ttatcattaa ctgaattntt ttagaaaatta 60  
 caaagttttt taggaactaa attntattta atgaatctca ctcagattt tatagtttag 120  
 taaatttttag ctaataataa ataatagcta gagaaatagt gtaatgatag ttgggtgggaa 180  
 tataagggag taaaacattg agagatttct atcaatgacc atgaacaaat tacacaaata 240  
 aatttgatac cacattaatt caattcaaaa ccttanaaca tttggattgt gagtctcatt 300  
 ttcttgatg atattcaact tgtccactct tattcaattt gngattntat atttcatacc 360  
 aacctttcat gcaatattgc ctaatggcat tgnggaagat tcacaagtag agact 415

<210> 29737  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29737

gagactcacg catatataa aacaaaagtg cgttcatta tgcataagt cgcattagat 60

aataataatt gttaacttat tgacaaatac accaaattgt cacaagtaat aaaattaaaa 120  
 cgaaagttcg aatgtcgaat ttacaaagat tttggttgta ctttagttaa tatataccta 180  
 atttgaagc aagagataag aaattgtaat agggagaaga aacaaaaaat tgtaattaaa 240  
 aggcaagaac aagaaaataa acaagaatga atgcacttga taatttcaga atttaaatat 300  
 ggtgggggtct agcatgccc actatccttg atgcaatgtt aaaatgggtc tctatttaaat 360  
 ggtattntaa ttntcattca catttactan aacactcaac tctgatccct catgatgaag 420  
 agttcagttt atgtattctc tcttctaaat ttct 454

<210> 29738  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29738

agcttgtaat cttttatata agctattgat gcttaacaaa aggggagaga aaaatattat 60  
 tttcctcatc ccttgagcta acttttggga ttgagttagg cccaaaattc acattctgag 120  
 atggatcag agccctagcg ccttcctttg acttttcgac acagacccta gcgtcgttca 180  
 acccttttct ttttcttctc catcaccatg tctcactcaa actctatctt tcacattgct 240  
 cttgttgtct ccaacatcaa gaattatgtc ctaatcattc ttaagatgga aaatgtccaa 300  
 tacgtgacat aggtgaact tttcaaacc cggtgagcat ttttctcgt tgtctctctc 360  
 anatctcttc ttttacctta tctctctcaa atcacttccc ttaccttacc ttcccttcat 420  
 c 421

<210> 29739  
 <211> 373  
 <212> DNA  
 <213> Glycine max  
 <400> 29739

acttttggga ctccgatacc caacctggca cttaaataa gttattttgc caaatgggtt 60  
 taaaggttcc cacccttcaa cccaacacaa tctaacttaa attctagaaa aatgaagtgg 120  
 acaccacaat tagcaccoca ctcatccttg atttatcatt gttttaaaaa atcctacaca 180  
 cttttaaaat tcttcaataa atagaataat caaggttacc aaaattcata ataaaaaaag 240

gtcattgatg atcccccttat tgccccatctt tatctaacgt atgatgggtga atatctaaat 300  
 tgatctttga agtatgacac acgtactata tatgtaaaat ataaaattaa ataagttttt 360  
 gtcactttgt cat 373

<210> 29740  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 29740

agcttcttga gtatgtgtgc acattctatt cgaaagctgg aaactatgca ttctgagtaa 60  
 gaatagcatc agcataatct gtcgacttaa tttgtagaag caatgggttaa gatcataagg 120  
 tagtacatcg tattttattg gattcgggtg aggatgtaga tatgcaaatt aggttcctaaa 180  
 ttattctacc cctcttcaat ttgtagtatt atgttcatta gttaaactca ttggagaaaag 240  
 cgattcatgc agcacaatc tggcacctat tcttctcctt agataaacat gcagtgatat 300  
 ataaaacatc gtgcattata attctatctg aacatgtatg ttgagatact atggagactc 360  
 ttgactttct agttcgaagt gtgatgggat tctctgaaga tgggaaatat attatatcat 420  
 g 421

<210> 29741  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29741

tcacagatct tntgtgttct tcacattcca cccaaagatt atgtttgctc attttgaggt 60  
 ctttataatg tttgtctgct tgtgcacatt ctctctgtag atcatgtctt tcttcttttt 120  
 cataatcatg aagttcatta agctctgtca gatccttttg aagatctttc agtttgcttt 180  
 acaaggcttg aaaagtcttt aacagatttt tcttggcca ttatctcatt ctcaagacat 240  
 agcttggaact ctttctccta agagtccaca ggctttacat gtctgagtgg actcatctgg 300  
 tgatacatct acttggtctt gaaggggttt ctcacgtcta aaatgatctt tgaatagt 358

<210> 29742

<211> 500  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29742

nggggnnggc tggcttgatg actcgcaacc tgcccggcac gggagcctgt acaccgggac 60  
 tgtatgcatg caagctgcag ccttcgactt ctgccacatt ttctatgcat aggcgataag 120  
 agaacggata acatgttcac ccctctgggt gatttgagat cacttggagg gagtgaaaaa 180  
 catcatctcc gtgaagaaaa ctccaggccg aggcgctttc ataacgttta ctgagcattt 240  
 gcgcttgga atgcgtgaag attctcaacc attgcttaac gttcttcggt cgcgctttcg 300  
 tcttcaaccg gtaagtccgc gcgaatcgaa cgtttcgatt gacttcatgt tcccttagcg 360  
 gcctcatttg atctacgtgc tattatttca agatatctac tgatcgacc actttgggcg 420  
 tgcattagcc attaacttaa gtcactgtt tcgactactc tgaacagctt atatggctac 480  
 cctggccaat cgtagtggtg 500

<210> 29743  
 <211> 534  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29743

cggccggtgt gacnccttg gaanancnga cnttgatacc ncatgcatct acgcgacacc 60  
 ttnnnaaacc tcagctttca tcacgggccc tataataatt aaccggaag aagtttgctt 120  
 atcactccga acttgactag gtataacctt ttgaataaaa tgaacttgtc ccatgggttt 180  
 actccaaaag tcaatgcgaa tcaaattcatt ctgcattttt atttctagcc tgccttcata 240  
 tgatgcatcg cataagcatc tcttcatggc atcataatga acatatcgtg cctgcatttg 300  
 gccggtatca tattccaaca tcacattntg catgagtcac tggctcatca tgcatatgcc 360  
 gtcaacatac gttttggtct acaaactgca taccttggtg ttggatatat tcatgatgca 420  
 ttcttggttg catatattcc ggaccatgag cccaccatgg tgggatcata naccctgttc 480  
 acttanaaac aaaatgagtg aacatggcac cctatggcat tgtaactan gaan 534

<210> 29744

<211> 313  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29744

cattctgctn gctngtggtg tttctatgga ggctggatct ttgagcttca atgaggtcct 60  
 ttaatggtga atttccaccg tggagatgct gcggaagaca aaggacaaga ggtgagaaga 120  
 tgcgccatgc actaaggaat aaaccatgga agaaggagct tcaccaccat aagcagcctt 180  
 agatatgaag cttggataga ttgcttcattg ggggatatga aagagggaga gaacgacaga 240  
 ggggggggagc gcgaatttgg acgaataaat ganggagaga agttgaactt tgacttgagt 300  
 ctcacgagac tat 313

<210> 29745  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29745

ttcttaagaa gattcctaaa gatgctagag cttagctaca catatctctc taatagctaa 60  
 gctcacctcc ttgagatgag aagctagaac ttagctacac accccctata atagctaagc 120  
 tcaccncat gacaaaaaac atgaaaatac caaaaaaag tccttactac aaagactact 180  
 caaaatgccc cgaaatacaa gggctaaacc ctatactact agatggcaaa atacaaggcc 240  
 caaacgaagg aaaaacctat tctaataattt acaaagataa gcgggcttat acttggccca 300  
 tgggctcgan atctacccta aggctcatga gaaccctang gccttccttt ggatctctag 360  
 cccaatctac ttggagtctt ct 382

<210> 29746  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29746

attaagcana ggcattcaca ccactannag gggagganag agcggaaatg cttggctctg 60  
 atcaacattt agatcccaat attgcatccc aacaactcga aacattatca aagctctaac 120

cagtagttat tggatgctag tatctatcat tgccagaata atgtagtaat caacatgtat 180  
 atgataataa tatacaatat ctactttaag ctagcacact tgccgcaact aacacaagtg 240  
 actctgaggt gagtaagctt gactagaact acaaattatg aatattttct atatctaaac 300  
 aacatgtatc atttattgga tataattatg ttcagatcaa atgggattag aacaccagtg 360  
 acaaaactct ccttatg 377

<210> 29747  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29747

cttccatcat cntttttcaa tggaaatatg cttgagtcta aggagattgt tcngtgtcaa 60  
 cggtggtaac ctcgactagt gtaagagttg taagtttgtg aggcattgtct agctccccta 120  
 tcttggacga cttgtgagta tgcttcttct gacaagttgt attgagagga catgtgtttt 180  
 gatcttgaag catagatata cgtgtcangt ggatgatgtg cttatatatg acaattcagc 240  
 cctttgatga tcattggagg atgcattgat cacgaatgta tcgctctgtc tataactaca 300  
 tgcgagtgca acacacacat attactctag catcatgctc actcatgaca tgggtgttga 360  
 ctagatatgc attactcggg cgtgtggagc tgcattcatct nttatagg 408

<210> 29748  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29748

cccattatat gtggtactag gaggcggtct gtcgattgtg cacaacagac ttacacatg 60  
 caccaatcgc gcataaacct accataccct gttgccacc tacaactgag ctcaagtact 120  
 cccacgtagc ccatatactc gtttctctca acaccgggtg ctcatcaatc ctcccaagct 180  
 agcccaacat ccaagtaatt caacattcaa acaacacaaa ctatcacagc gcagataaca 240  
 gggcagaggc taaaaactct gcccaaacac caaccaaact cacagctttt ctcaactaaa 300  
 gaccccgta acaattcctt cattccagtt cgttaaccgt tggatcgact canatgtttc 360



actggaagtc tgtagtacat agacctagca ttgaccggt gcgatctagc attaaacacg 420  
cacaacgcat tctgcatcac tc 442

<210> 29749  
<211> 370  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29749

agcttatgcg tatactccac gaacggtcac ttgcacaaga cattcttata actaagaaaa 60  
atgcacccat atacaatcaa ggcaccttcg ttacctagat tattttacatg tactttccaag 120  
gtgtatttgt tacctatata acacacattt cctttgctaa attcacatac atgcatactc 180  
taagcacttt ggctatcaaa aattgcatac gtgcacatcc tggattttct aataacctata 240  
catacacaaa cttcatgatg aatcttgact atctacacaa taagggtgcta catttcatgc 300  
tttntctttt tcaagtgttt ttactaccta nagccgcatg caaattcaag tatattntct 360  
tttgctcact 370

<210> 29750  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29750

agatgagcag cagtaggtga cttgtaggga agtccttttgt cggagctcgc gcagccgatg 60  
tgataacggtt ggaatttatt ttgggggaga gttgtgtttt gttatgaact cttccttagt 120  
tggtctcttg aatctttctg attgggcata ntaactctaa gtttagatat atgtaaaaaa 180  
atctgaatta tgttctgaca ttgaaagat gagtagtggg ggaatatata tatatatata 240  
tatatatata tatatatata agcatgtatt tgctcacgtg tttgtgagtt gttggatgaa 300  
tgtacatcac acaannatta ccatcgttnt cacaatcaaa ttaatgggag tttcacttat 360  
aaattgaaat gtcacatttt tatagtagtg attgtagcga caagacgggt cgttacagtg 420  
gcac 424

<210> 29751  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29751

agctnttcca tttcttacgg taaaatctgn gacctagcca tggtagaaat ctccacagag 60  
 gccattgcct ccctcgccca gtattatgat cagccgttga ggtgcttcac ttttggggac 120  
 ttccaactat cacccatggt ggaagagttt gaagatatc tgggatgccc actgggagga 180  
 aggaagccat atctttcttc tgggttctat ccctccatga caagagttgc caaggtagt 240  
 aatatctcag cacacgaagt tgaccgtgta aagc 274

<210> 29752  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<400> 29752

accttgaatt aatacctttg atagcacttt tgagccttgc ttccttttcc ttggtatgaa 60  
 gctcactaca agccttaagt gataaaccct gatattacca tacccttaag gaattttgga 120  
 gctttggaat ggatttggga ataagtgtgg ggggtttttg tttcattgga caacttgttt 180  
 tgttggctat gcttcatgat gtattttgcg ccatacttga tgtatattgc atattggtta 240  
 aatgctggac atgctgaatg aaatgttggt tcctaaaggc taaagagt 288

<210> 29753  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29753

agcttggtcg ttttgctgat atttatcatg cacactnttc tgatgatgac cgaggaacaa 60  
 ttagggatca acttgaaact tatgtgcttc aagtgagaag aaatgcttct ttttccactt 120  
 gtgaagatgt tcaaagtttg gctatgaaga tggttcanac tgagaaacat ttggtatttc 180  
 cattggttta taaacttatt gagctagctt tgatattgcc ggtgtcgaca gcatccgttg 240  
 aaagagcttt ttcagcaatg aagattatca agtctaaatt gcgcaataag atcaacgatg 300

tgtggttcaa tgacttgatg gtatgttaca ccgagcggga gatattcaag tcgctggatg 360  
atattgatat ta 372

<210> 29754  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29754

ntatatatnt atttttatnt ttntaaaatt aagggtataa atnttatntt ttcataatnt 60  
aaaaattcac gtattacaaa ttttaagaact aaattgaata ttatcaggag cctcggcagc 120  
cttaattnta accaaaacaaa gttacgtact aaacaagact ttgaatgcct gcagattntt 180  
ctcanaagag ttgtccgcca ggtaacactt tagtgactnt ataagaaaat tgaacttgca 240  
ttcgatcacg anaaaaatga gaactaatnt gaattatatt aactacttat atcaaccctc 300  
gtcaattnta tctacatatg catacaagtg taattagatg agtccgatcg ggtctgagcg 360  
agggatcaaa attacgtggg tttcgttagg gttggagaca atatcttcta attaa 415

<210> 29755  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29755

agcttctacc tctggctgct gctgctgctg tcaattgtca tcatgatgtg cacacattga 60  
tgcaatcact cgacgagggg tggggaatnt tgaaatgaga gacagaaggg tattttcact 120  
gttgataggg gctaattgca aaagagttag gggccaatag caacacccaa actcgtttta 180  
gaatacaagt cataatcctc ctgattgggc cttcgagtaa aagcccattc acaaaatgga 240  
tgcaaacaca gttttgaaat gggctttgta gccagggtcca aatctgaagc agctgctatt 300  
tttggtttgc atctctctct ctctctctnt cttcgctagc caactcaacc cagtgcagcg 360  
agtaaagctt tctctctctt gttccttcgn nggctatggt cttcttctac ctttcgcgaa 420  
tggaattc 427

<210> 29756  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29756

tatggtacac gacaatntat gagttgataa attgtattac actatattata catagattat 60  
 ttactatttg aataatttga ttttttttta aaccagattc catgcaacca tataacaatca 120  
 tgccagtaat ttatgcacaa ttgtcaaaaa ccaatcgtag aggaaaaaaaa actattcatt 180  
 ctgagcaagc catgcctcaa ttattatttt ttcatgtcaa atcagataaa aaatagcttt 240  
 taattttgca taaacaatta tgtgagcaac actactcttc tcataatata aatatttgat 300  
 tntggttgcc catagaccat aggttttaag gcttgcaggg agcagaatgt gtcagcttca 360  
 gatcagcagg aagcaagttc actattttgt tntacttatt ggaacagaaa ggtatgtgtn 420  
 tgatggggcca catgggtccc tctgtatctt gat 453

<210> 29757  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29757

catgcaagct tccttttctt cctctgtctc attgtactgn gccgaatggt atgtaatggt 60  
 ttctttctaac ctcccctcta ctctctctct aattactttc tccacctttt ggtaaataaa 120  
 ttttaaggaaat tttctttgat gaattcaacg ctccacgact aatttaccac cctaatttaa 180  
 agtattcatc atacaatttg ttactcattt ttctgcaatc tattattaca agagtctatc 240  
 atgaaataat tgtgctttta aatgaatttg actaatctaa ttcccaagta ctgcactgat 300  
 ggactatatg atgttggaac tcatgaggtg ggaatttttag aattgcacct gaatagaaaa 360  
 gcatga 366

<210> 29758  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 29758

catgcagtag aatcgtttca gataacttaa aaccaatcca atatggaagg gcgtttgctt 60  
atattaataa cgagatgaat tggattaaaa aaatatattc atcaatattg gtgtgaagca 120  
tgtaaattatt gaaatgatat ataactaaag aatgagaatc ttttggtatg tacaaaaaga 180  
aaggagataa ggaaaaaaga aaacaaaaga caaaacgagt ggaggactgt aaacggaaat 240  
gagcggagtg ccaaataaca tttgtggngg cacgatcaga aattntaatc cattgaaact 300  
gatttctttt ctttntctga ggaggagggg aatggaaaaa agaaatatga gtagccaaca 360  
cagaatcana cttgtccctt annattttta ggggataatg ccatgacaga ttttaattntt 420  
ctatttttgt catgaaatcc ttcacatcaa taattgatgt attatttgaa ataa 474

<210> 29759

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29759

agcttttggt catatatata ctccatgttt attttgagt taacattaat gtgcatttat 60  
tgcctaacta attaatactc cagattaagc aagtcttcat gtaattaatc atgtattgag 120  
cataagcaat tatcgactga ttaccacac aattctagcc acactatatt tgattcttat 180  
atggcccaat taatttatag actgagttgt catttacttg cagatattct cagatctgaa 240  
agctcagatc ttgtcatcac agcgtatttt cttctcactc taacttcana gtcgggctat 300  
aaatttttaa ttctctgttg tttatctgga tacagatcag atatcgngga tatatgctga 360  
gagaattcac ctctcatttt cacacatgac 390

<210> 29760

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29760

atagcttgct ataaactcac acaactgact tagagaantt aaattttgta attgtagtta 60  
aatagaaaga cccaattgaa aactaacata agtttaagaa cccaattaaa aaaattcaga 120

tacttaatta aaataattgg tccctccaaa ttataatddd ttagtccctc aatctcaaaa 180  
aaataatddd ttagtctctt ctgacttatt ttttgcaatt tggatgaaca cttgggggtga 240  
tttttaacca taggagggat tataaaacac attntccaaa tttgatgagt taaaataatg 300  
taaactttat tttgagaaat aaaaatacaa tgtccccaaa ttttaagagat aaaaaatatt 360  
taaantnaat aaaaaataat caaatagttt caaaatctgc aaaataattd aacctanaat 420  
aaagacatca ttatcttatc cccdttdgtt tttcactcg 459

<210> 29761  
<211> 400  
<212> DNA  
<213> Glycine max

<400> 29761

agcttgccac acttagcaga agagcttatt tcctatgtaa gacattcctt ccaactcactt 60  
ctacacatgc tcccttgctc ttcatagaca ttctccttct cttcttcctc acctcactat 120  
aataaccaga aatagaaaca gataataatg cacacagtat aaaaaaaaaat acaacgagaa 180  
acaaagatga aacaaatgca aaaaaaaaaa gaagcaaact ttacagcttc tgtggcagcc 240  
agccactacc ttgttcgttg ggggcaaaag aggaagaaga cccactaagg cccccgcctc 300  
tttaaatacac aaacgaaatt cagaacaaca cttataagtt ataacaacca aaaacggctg 360  
gtgtgaagta tgaaacaaat ttataagtca aatctatgga 400

<210> 29762  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29762

gtcctttaat ttcacaatta tgttatgcc ncttatagtg accttaaact gttggacgta 60  
taagattctt atatttacca atagttcact ttgcctaata accttgcaaca cacgcataga 120  
aatcagtatt tccaaagtcc taaaattdgt gattgcaata ttaattdtta atgctcttdt 180  
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<213> Glycine max  
  
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ctggagtctt tgcaggaaat gatggaagaa ggcgtgttgc ctaattccta tacttactcg 360  
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tac 423

<210> 29764  
<211> 441  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 29764

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caaatacagt gttcaattaa taaagttaaa cccgttaatg ataattaagt gtagatagaa 180  
tgatttcata tattttattct gtcaaaaagt ttttattgaa tataaaaaatt ataacataag 240  
gattatgttt caaacaactt tnttctcttt taagatgttt tcatactttt ttactagtta 300  
aaaatgatnt tatntttttt atncaaacia aattaatgaa ctcaagccac tttttacaaa 360  
cttactccga caattttttt taattataat ctatataaca ataattattca ttatcatata 420  
actaatatta aatatttaatt t 441

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 <213> Glycine max  
  
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 cttatgaaga tgaacagcc tatatgagac ttgttggcag acttttatat ttaactacaa 180  
 ccaggcctaa cattgctttc attgttcagc aacttagtca attcatctct cagacattac 240  
 aagttcatca ctcagcagca attatagtcc tcaatata 278

<210> 29766  
 <211> 307  
 <212> DNA  
 <213> Glycine max  
  
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 aataatttaa gagaaatcat agtaaatctt aacaagtga aatatttata tggtatgaac 180  
 caattaagaa ttataatata tataatcttt aagataagtt ttaattatag ctttgatccc 240  
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<210> 29767  
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 <212> DNA  
 <213> Glycine max  
  
 <400> 29767  
  
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 tctctatcag gaccgcccct ttgcacagtc ggaggaagcc acacgctccc tagatcgatg 180  
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cagaaccgca ctgtaatagt aaaccagcca gacacgagat gtgcgagaat gagacacatt 300  
tattagtcaa tctatggagg 320

<210> 29768  
<211> 447  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29768

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ctagattcca ttacatctac ataaatcaga tttgcttaaa ttgtctgctc tcttcccgt 180  
caagcccaat tacttataat actcctggag taaattaaaa acacagagtt agtcccatag 240  
gccccaacgc ataaacctgc taactaattc gacaatcaac actaatccag cattaaaatg 300  
gcgcccacag gggtacaaat aagacacaat aatggccctc actttggcga agcgctccaa 360  
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actatcactt cttgatgaat gtgatgt 447

<210> 29769  
<211> 235  
<212> DNA  
<213> Glycine max

<400> 29769

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aaaatccaat ggaccatgca cacgatggga actttgggag taagagaaac aaagactgat 180  
catatgcaaa gacacatgaa ggataactaa cataagtcag ttctttatat acact 235

<210> 29770  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29770

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 tggatgttag tggagaatca gtctatgtgg tatagggttc tgcgatggga agttgcatta 180  
 gaagactcan agttcatctt ggtggaagtg agctacatgt ggggtggttgt gactcttgat 240  
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<210> 29771  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
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 tggcacanac cacaaaaaca ccaacaaaaa ggaattttgc agcanaaagc ctgtanggtt 360  
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 gg 422

<210> 29772  
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 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29772

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cctccgagtg	aaaaghtaag	accatttgaa	tctctcgaga	gcttacgatg	ttcaattttg	180
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aattttctcga	gagcttccgg	tgctcaattt	cgagcgtctc	gatatattat	actcctgaat	300
cggacctccg	agtgaaaagt	tatgaccatt	tgaattttctc	gagatcttcc	gttgctcaat	360
ttcgagcgtc	tctatatgtg	atgcgcctga	atcggacctc	cgagtcacaa	gttatgacca	420
t						421

cgatgagccc	tgattgctga	ngccatagaa	cacacggcga	ttcagctagg	acccgggatg	60
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gttagatctg	caagttctat	aggactaact	gtattactcg	ttatcaacag	atgtgggaaa	360
tgacgagtat	taatatgatg	cttgcgaggg	atcgcgatgg	aactaatanc	aaattattct	420
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acgtacacg						489

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 catgcattca tcccagtcca tttgcggtgtt cacgaaaatt ctacagcact tacccttcag 420  
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<210> 29775  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29775

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 cagagagaat gtcccaaaaa agtagtcaaa tgctagaatc tccctagggtc ttcgctagct 180  
 caagagattc cttcaccaac gtctaaataa agtttccact agaaaggaaa ccgtcaacta 240  
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 taccctttct caatacaact ccacaccatc aaattatatg caagacaaaa atgagaggta 360  
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<210> 29776  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29776

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 aaaaaagatt tagtttaaga aattattaga acgaaattaa agttatagat atttatttgt 180  
 aaaagaataa agtttgagca tcttttttaa caagtacact tccgtatact gtccttaga 240

caaatcaata cataaggata ataattatga gtcatttccg aaaactgtga gtattttcgt 300  
 ttatttatat tggattaagg ggattcacat ggtacaaatc agatacgtag tctcttgtaa 360  
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 a 421

<210> 29777  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29777

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 actatatatt attaaaaaaaa gtaccaaact acaatctata tatataaaaa aagactatgc 180  
 caaagntatt actaatttat tacttttctt taagaaatta aaaggaaaaa aataatatga 240  
 aaattataga taagcagaan aaaaaatcat aaataatata attttataca ttccaataaa 300  
 aaatcatggg ttagcattnt tcttcataga aagcgtatt ttttttggtg attattaaaa 360  
 agaaagaaaa gatattaatt taaagaatgt taaactatgt aagtgttaatt aagaggatct 420  
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<210> 29778  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29778

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 atcatttgtt gtcactgt tatgaattcc tagtgctcca cctacaatga ttataacact 180  
 aaactcgaag aatgaaaaa ggctntaaca tttcatntg ttcttgacac ttgtctgcaa 240  
 cactgttcat acaggacatg caggataaca ttgttcanac agaattgggg tcaaataagg 300  
 ttgggacacg tggacaaggg ggagttaaag ctgaagagtg tatttggacg tgggttggtga 360

ggtaaggggt tggcaatttg ttgctttagt atctaagaga ggagagagag aatct 415

<210> 29779  
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<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29779

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aaactgggtt catataagct ataagttggt ttcctaaact atcttgaaga gcttatngaa 180  
ataaacagaa aacagctaata aagcatatct taaacactgg tttcataagc tntctcanac 240  
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tcctataagc tcatgtgcat gataagttca caagggattg attaactctgt ttacctaaat 360  
gtcacagggg ggtcatgatt agggatatnta tacatcagta taatcataacc taataaataa 420  
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aacta 485

<210> 29780  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29780

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tttataattg aggatggatg agcttgacat aacaatggta aggttattgc cttgtgattt 180  
ggagctcaca atttcaaatac attgaaacaa tctctctgct tgtagggata tatctgtgta 240  
catctatcta cctcctccag gttccactag gttggagcct catgcattgn gtcaccgtta 300  
atttctatta ttattgntat tcctgcatcc ttcttttata tgcaatgcta tccttaattc 360  
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<210> 29781

<211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 tattctttga aagatctgtg cccttttttg cacatgttcc gtagttgcat cctatccgaa 180  
 gacattatac tgacactgcc taacgaaggc aaccattagg tccttccaag aatgaactcg 240  
 agaaggttcc aagttagtgt accaggtaac agctgccccca gtaagacttt cttggaagga 300  
 atgtatcagc aatttctcat cttttgcgta tgccncatc ttccgacaat acatctttag 360  
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<210> 29782  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 catccacttg ggaataagcc atagaagaag gagcttcacc ataaagatga gccttgata 180  
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 caagactctc attcatcana gttataacaa gtgttacaca tgcttctatt tatagactag 360  
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<210> 29783  
 <211> 482  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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agtggccgga agtgcaacaa tagaaaaacc tagagcagat tggactgagg aagaaagaag 240  
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<210> 29784  
<211> 431  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
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ttcaccggat attctagtta actctaaaag ttgtgagacc aaacattttg gacggaagac 240  
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tcctgtaca t 431

<210> 29785  
<211> 312  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
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ctcaaattct attgaatata tcccagtgaa taagggatat gcggatatca atgactgatt 180  
 tttctgcttc tctattaatt ttccatcttc cttggttgga tattcttcta nggtgggttg 240  
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 acattctcat tt 312

<210> 29786  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29786

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 tataaataaa caaaaaaaaaat atatatgaga gaggaacaaa acagggttta ttaaacagtg 180  
 tttattatta ttattattat cagaggaaag ggatgaagtg gtccttttgt gagtctcttc 240  
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<210> 29787  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 29787

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 gctcttgatc ttgaaccatg aattgtgttg agtttaggtt cctttgagtg ttatatatgc 300  
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<210> 29788  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29788

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 <211> 390  
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 <213> Glycine max

<223> unsure at all n locations  
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 ctcaatcatg cgagcatggg gaacgaagta aaaggaaaat gtttggtat gatagcacat 240  
 gccaacgcgg tgagataacg gtgtgaatag ccttaaaagg ataaaagtga cgatgatgga 300  
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<210> 29790  
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 <212> DNA  
 <213> Glycine max

<400> 29790

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taaaaggtgg ttcttttgtt ccccatcagc ttgaggcact gaactgggtg cgtaaagtct 180  
ggtataagtc caaaaatgtg atacttgctg atgagatggg gcttggaata acaagatctg 240  
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<210> 29791

<211> 326

<212> DNA

<213> Glycine max

<400> 29791

gaagttcaag tccatagcca tcaaagtctg aacagagtat gatgaactaa gggacgtcaa 60  
tatggccaca gctgaagctt tggaacgaga aaccaagaac gcccgaagg aagaacta 120  
ccaaagcata gttctgatgg gctttatagg gcaacaatag tgagcctcaa gctccgaaga 180  
ggtgaaagga atcttcacgg gtcaaatgca tgatcttgaa cgacgagcta aaggtttgcc 240  
ttatgttcaa aagaaatttg cccaacagta agcgagactg aaagaatatg tgggccatca 300  
tcgataattc aaagaaagct aaatta 326

<210> 29792

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29792

agcttaggcg ttcagtgagc atctgggaac caacacgaat cagacgtcga gggagacaaa 60  
cttgtaagga actttgggtt gcagcttttg cccactagc tattacctag actctgcaac 120  
aacggtcaac atcgttgaca ggagcacgta ctactaaat ggtggcccca ctcagtgtgg 180  
gttaggtgag gaaatatata aaaggtgggt gagactgcaa accagtacga tggggacatg 240  
gaggatatta ggaagcaaag cctagcagca taaattcacc atgtagggga ggcaggact 300  
atgctntctg atgaggaggg aganaagatc aacaaaatcg acaagaaaag ggaagaaagg 360

gacacacact agcagacaca t

381

<210> 29793

<211> 451

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29793

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gttgccccca ttcttctatg tattaagaat caaaattcat taccgcccac caggtatgat 120

gggcaatggg catgcacagt gtccatgttt caagcacaag gggctcttgc atgtgtggga 180

gttagatata agagttatcc atgtctcttc attcaccaca caatttaagc ttttgggaga 240

gttagtttat gacaaaatct atctatcttc tgatgtnta taatcatgct gataatgagt 300

catgttgccct acagataccc acttaaaaat ccaacatacc tgagaattcc aacgcattgt 360

ctttggaaaa tgaaatttag caatagtagc aggcaaatct tcagacaaaa cctaataaga 420

gtagaacana tcagcagcaa taaaatgtgt a 451

<210> 29794

<211> 349

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29794

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aaagtctgag agaccatata agtttcctag cgatttctaa ttatgtgggc cattaagtct 120

atcatatgct gacaatagcc gagaagccca tgaatttctt cgggggcgga gtaggtgtct 180

gccatcgct tggccttggc taacaatcgg ggcagttctt gactccggt caagggaaga 240

gcaaaccgat ccatccacat gggtgcctct tgggtgtaaag agtcgatcac ccttcctcta 300

gcctcttttt cgggtatact cgggcatact cttncgtaac cctatgctc 349

<210> 29795

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 29795

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gtggatggcg cctcctctca cctcttttcc tttgtcttcc gttgcatctc catggtggaa 120  
aatcaccatt aaaggacctc attgaagctc aaagatccag ccccatgga agccccacaa 180  
gcaagtttcc atcacatata tcctatcatc taatgattga cacatgacaa tgaatctatt 240  
aaaagttact acaagttctg agaaataaac taacagtggc aaataggatt gatgggaaaa 300  
ggatggatgg tactgtcagt ggggggaaag aaaatttggt ggggtggtgt cacaattgtc 360  
catcttatta ttagaaagtg ttgttgagca attc 394

<210> 29796  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29796

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tagacctccc atctttaatg gagtgggtta ccactactga aaaacccgca tgcaaactctt 120  
tatagaggca atagatttaa atatttgga agccatagaa caaggacctt atgttccctc 180  
tatagtggcc ggaagtgcaa caatagaaaa acctagagca gattggactg aggaagatag 240  
aagattagta caatataatt taaaggccaa aaatattatt acatctgccc tangaataga 300  
tgaatacttt anggtttcaa attgtanaag tgctaaggat atgtgggata cactacaagt 360  
aacacatgaa ggcacaacag atgttaaaag atctangata aacactntaa ctctggaata 420  
tgaactgttt angatgaatg taaatgaaag tatac 455

<210> 29797  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29797

agcttaacag ttggtgaaag gtatgttttt cggtgggagt cccgtgactg tgcaccttcc 60

acataccttc cacatcgggt tggacacagt attgttggcg actgtgtcat cgttttttgg 120  
attgtggagg gttatgagtt aagttgggtg aaaaaaatta ggaatgtttt ttatgggtctt 180  
ttgttgtaat gttattggga gnttttttcc tagtgttttt tgttagtcct cctgggtatat 240  
gcgttatagt ttcatagctt gtgatgggtc gaatgctntt ttgggggttat tttgttgctt 300  
gtcaattctt ctcgtaatta tcgtctgggg aacaatcgaa tgtgtgaaat ttagttctac 360  
acaaattgta aattcac 377

<210> 29798  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29798

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ctaagttagt tatcgtccaa tgatcacaga gtacacgtat acacatcatg aagttgatca 120  
atgttctaga aactgtttat tttcattccc tcataatttt tgaaatgcta atcatttgaa 180  
gttcaagtgt atattgagac aggttggcaa aaaggtatat tctctgcaga ctgttgctaa 240  
taaaagtagt ggaaagcata atggaaggga taatactant tttacctttc tctctccatc 300  
tcaagttgcc atgttgcac attaccagct atgagagaac anatattttc gtgaaggcac 360  
ttaaattcac aacggtcaca tatttctaga tgaccaagcg catcaagaaa caactttngc 420  
aatctgt 427

<210> 29799  
<211> 224  
<212> DNA  
<213> Glycine max

<400> 29799

agtcgaagga tattaacgag agaagctgta ctttgaagtg agtctcacia agttctcaca 60  
tcatatcctt cttaacaatc ttcttggagg actcctattg ctctttttcc ttacgcttgg 120  
tctttgaaga caaggtctta ctatccttct ttttcttttg catttctagt gtttctttct 180  
tatecctctt agtcttcata gatagctgat ctttgaccat ctgt 224

<400>	29800
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<210>	29801
<211>	238
<212>	DNA
<213>	Glycine max

<400> 29801

<210>	29802
<211>	416
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      29802
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12427

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 ttcaagctac cattttttcag atgaactcaa acaagtcacc atgtcctaac tgactcaatc 360  
 cagcatttag aaaaattgca tctttatgga caagaatttn tcaactctggc atcact 416

<210> 29803  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29803

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 gttatgaagc tcaactacaaa ccttaagtga aaaaccatga tattaccata tccttaaaga 120  
 attttggagc tttggaattg ctctgggaat aagtgtgggg ggtttctgtt tcattggaca 180  
 acttggtttg tgggctatgc ttcattgatg attntgggcc atacttgatg tacattgtat 240  
 attggttaat tgttggacat gctgaatgaa atgttgtttc tcaaaggcta aagagtaaaa 300  
 aaacaaattc gaataacaat aatcgaataa agacaaagat agcaataaag ctgagtata 360  
 agatcttaat ggccaagatg ataaactctt ggctactctc atgttcatct tatcttactc 420  
 ttctatctct tattcttctc tcgatatgca ctat 454

<210> 29804  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 29804

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 tatttttttg tacataaaaa ataaaaaata aagactaata tttatctaact actactatct 120  
 ttttatattc tttagaatgt ttataaagtg tttaatcatg agatctggct gaaagtcaaa 180  
 catgactcgc atcttttaag taaagtctca aatttttaatt ttatggaaag aaaaaatata 240  
 gttagaaaag aaaatttcac taaagatgac ttacttaaat tttttgaaga acattaatta 300  
 ttatcaaaat tgatggatac ttactcaat gacttgataa caaagaaaaa acttgacaaa 360  
 agagagagaa gagagatgga aagagcatat taaatcctta tatgttataa actaataaga 420  
 caagatcatg 430



<210> 29805  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29805

tgcattggatt ataatatatc aactaaacac aattcacaaa gtatttggat atgctatgca 60  
 taatttacct gtacacagtc tgcatttacc atacgtgctg tgctatataa tatacagtag 120  
 tattttcgag tcatacaacc caatggtagt gacccaatca attaaggaca agagnttgat 180  
 aggacagaaa ggtattgtga caaggacaac gccagaaga caaaaagata tgcactttta 240  
 tatgtagtta taatacgata gcttctcttc aagaacttta ctgggtaatg gtattttttt 300  
 taagcattaa ctaagttcta attttcta attttctaat ttctttcgaa attaacttct tttcctaaca 360  
 cattattttt ctgggtaatt ttttactttt ttatcaacta actaaaattt tgtttgatta 420  
 gtaaag 426

<210> 29806  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29806

tagcatctca gataattttc tcaagaaagc tactcaagga agctatctag tctataaata 60  
 atagcatgtg taacacttgt tgtaactttg atgaatgaca gncttatgag acatacttca 120  
 aagttccact tttcttcctc ttttattcct tcaattttgt gctcaccct tctctctttc 180  
 ttttcatcca ttaagcatc ctcttcaagc ttcgtatcca agcacattct tggaggtgaa 240  
 actccttttt ccat 254

<210> 29807  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 29807

tgatgcgccc cgcttcgact attttaagcc atgggacgga tctttaagat cctccaattt 60

ttcgactatc attagacccc tgaggaggaa cgcattctctg ctgcttattt ttatatggat 120  
 ggtccagctt aaatgctgat ttcattggctg caccaccacc atatgaccac ttccttggac 180  
 tcctttgctc acgcgctcca gactcgcttt gccccgacat tttatgatga ccctcacagc 240  
 aactggcca agcttactca acgacgctcg gtgaacgatt acctccacga gtttgaacag 300  
 ctgcggaacc gggtcacatg tcttcccccc tccttcttgc ttacctgttt 350

<210> 29808  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29808

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 cttcaatcgc ctctccatac tgagtttgct ctatctcatg tggttgtgt ttttcctttg 120  
 taagctctga ttgttctttt agcagaggag ccctcaactt atggtagctc ggaggattca 180  
 attgttgacc gtaatctcca acagcttcaa tcatcatctt aaagccttta gagcatgcaa 240  
 cctcgaaagg aatttcattc tcacggatga attgggcaat gcatcgatta gcttttagccc 300  
 ttgctntttt aatactagca tcccttatac atgttttctt cttggccatt ccaagagtga 360  
 gttngtttga tagttcaata attctcagcg tattcatatg tccat 405

<210> 29809  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29809

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 agttatcttg gntatgagag gggatatgtg agctaagctc tagcttctca aggacagttt 120  
 ctcaaagaag cttctcaagg aaagtttctc aagaaagctt ctaaaggaag ctacctagtc 180  
 tataaataga agcatgtgta acacttatcg gtactttgat gaatgagagt cttgtgagac 240  
 atacttcata gttccacttc tctccctctt ttattccttc aatntcgtgc tccccctctc 300  
 tctgtctctg cctctttctt ttactccatt gaagcattct ctccaagctt cttatccaag 360



ttaagcccat ctaatctacc taattaaact aattacacaa agcaaaaccc aaattcgag 180  
 cccaattatt gaactgcaat gattcttagc tccaagccca atttgaccgc cgaaatggca 240  
 aaatgtccaa gcttatctgc gaaagataat acaaaatcga atccattctt ctgatctttc 300  
 caagaactac tcacatgctc cattc 325

<210> 29813  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29813

taagcttctc attgtttttc ctagtcaata aatataagca tgtgtaacac ttgttgaact 60  
 ttgatgaatg aaagtcttat gagatacact tcaaagttcc actcctctcc ctcttttatt 120  
 ccttcaattt cgtgctcccc cctctctctt tctctccctc tttctttttc tgcattgaag 180  
 catcctctcc aagcttctta tccaaggctc atctttgtgg tgaagctcct tcttccatgg 240  
 cttattccct agtggacgac gcctcctctc acctcttcta ctttttcttc cgctgcatct 300  
 ctatggtgga aaatcaccat tgaaggacct cattgaagct canagatcca gctacatag 360  
 aagctccaca agcaagcgtt catcataagt atttattacc tatatttaac t 411

<210> 29814  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29814

tatcctataa ctgactaagc tctattggta atcgattgca gtcttgtgta atcgattaca 60  
 tcctactgtt ctatggtaat cgattacagg gagtggtaat cgattaccag acctaaatca 120  
 aggctttctc tacaaatcta actattgctt actcctaaaa actacatact cattgtatct 180  
 tttatctacc acaatcagag atcaataata gactttgaaa aacaagcatt ataaacatct 240  
 taactacaac catcaagcac aatcacaagt acaaatatac tcaccaaadc aataatcatc 300  
 aaatcataca caaagaanat cattaagccg caatgtacaa ccattatgat tgtcaaaaca 360  
 caaacaaga taatcattga caatcattca atcattatga ccatcaaaac acaaacacaa 420

tcataaaaaa agaanatata aattaacaat

450

<210> 29815  
<211> 356  
<212> DNA  
<213> Glycine max

<400> 29815

agctttttct tttgaagaag gagaagtaca agttcacaga tatgttcaaa agttaattgg 60  
aaaacttatg tcagagtttt cgaaatgcaa gtcaatgtct tgcttttata gactcttcat 120  
gtatgggtcaa gaaaaccatt ggaagagtta taaccttgag aaaaacctga aaaccatagg 180  
aagagttaca tcttttgatt attattcaaa acttgctact ggtaatcgat tacctgaacc 240  
atgtaatcga ttacacacag cattttatga acatatatga ctcttcacaa ttgattgtga 300  
atgtcaacga tcagatacac tggtaatcga ttaccgatat attgtactcg attaca 356

<210> 29816  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29816

tgagactctt ttttctgaag atgaagctaa tcatgctttg gaattattca agaaagaaga 60  
agaatatgta ttcccatata ctgggggatat gttgctggag tttctaacaa agaagcataa 120  
agctgggaaa gaagtgatga tttgcccttg atttagtggt gtgcttgata aaactacaac 180  
aatggctttc gaagcttcta atttgcaaga attatcagat aattcaagac gttgatgctt 240  
aaggggaagg aaagcaaaaa atcaatatga ctgtgagtca agtgcaaaaa ccatacaata 300  
tttctcaaag aaggtctaca tatgtctcac atggtggaag tccttcgaat agatggactt 360  
gacagggaca tcaacaagta ttgatgataa ccattaagct gaacaattat gtgcctcana 420  
gagatggaac tac 433

<210> 29817  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29817

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taccaattnt gctagctgtt gatgttgcac catagttttg ctatgtcatc tacctttggt 120  
ctcatctctt taccttaciaa ttcaggcaat tctatcatta ccctttttca atatataaa 180  
ttggcaacat gcaaacatat ctaatccagg agattccacc actaatagtc agcctataat 240  
ccataaccaa tgaagtcctc catctccaat ttattccatc ttctaanttt attgtagttt 300  
ctgcagattt aagataagcg ttgggttctt cggntnaaca tanatctatt ngttagttta 360  
taattcacc aattctgcct ttagtcattt tcaacatgca gaac 404

<210> 29818  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 29818  
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aatccttcaa caccttattc acacattctg agagggttgg tgtcatgtga ccatatcttc 180  
gtccagatgt atcataagcc atgtccatt tttcctttga aatgcgatca atccatgttg 240  
ctatggctgg actcaattga tgaaattttt ctaagtcttg atcaaacaca tgcttgcaag 300  
gagtgtacgc tgcataatag ttgtaccat caaaagttgt aggtagatat gaaactaaaa 360  
ttaacttcat gtataacata aaccttacc aatttcttga acat 404

<210> 29819  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29819

agctntgaat gctctattca atggtgttga caagaatctc ttcagactga tcaacacatg 60  
tacagtggcc aaggatgctt gggagatcct gaaaaccact catgaaggaa cctccaaagt 120  
gaagatgtcc agattgcaac tattggccac aaaattcgaa aatctgaaga tgaaggagga 180

agaatgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240  
 gggagagagg atgacagatg anaagctggt gcgaaagatc ctcagatcct tgcctaagag 300  
 atttgacatg anagtcactg caatagagga ggccaagac atttgcaaca tgagagtaga 360  
 tgaactcatt ggttccttcc aaacctttga gctangactc tcggata 407

<210> 29820  
 <211> 482  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29820

tattcaaagc ccttanagct aanaactctn ttgatgaaga atctaataa gagtctgatg 60  
 aagatgaagt tgccttcac ctcacagaaga ttcacaagat gtggaaaaac aaaggtgaat 120  
 ccagatggaa gaactcctca aaaagcacgc tcaatgaana gaaagataaa gacaaaagct 180  
 ctatagtatg ctatgaatgc aagaaacttg gacacttcaa atttgaatgc ccagaacaag 240  
 acaagtctca agacaagaag aaatactata agaccaagga aaagaaaggt ctcagagacc 300  
 cttgtaaaga tctagatgac acctcatcta atgaagaaga agccaaccta tgtctgatgg 360  
 cagatagtct ctgaagaatc taaatcanat caagaggatg aggtaactct taatgatcct 420  
 aaatctctta nnaagcttac aatgaactgc tatcaaactt ttccattctt tcacaagctt 480  
 ac 482

<210> 29821  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29821

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 tcccactcca agtaggcctc cggatcattc tttcctttaa atggaggaat gttgagttta 120  
 ataccatcaa ttcggttttg tctaggaaca ccatcattcc ctcttctcct cctttcttct 180  
 tcattatgat ctctattctc catttgatcc aacctctcat ggagcgcac atctcgttgt 240  
 ttcattaacc tctccaaatg ttgcatcaaa gcttgcatc ggaattgcga aagccccact 300

ccatcattag gattagtacc tgacatctca nacaacaaaa tcanacgtaa caagacaatt 360  
 atagttgctg tttgaatacc tcacccactc aagtgtatca cacaattatg gctntttctct 420  
 aatga 425

<210> 29822  
 <211> 471  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29822

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 accatttgaa tttctcgaga gctttcgttg ttcaattttg agcgtctcga tatattatgc 120  
 gcctgaatcg gacctccgag ttaaaagtta tgaccatttg aaattcccga gagcttccgt 180  
 tgttcaattt cgagtgtctc gatataattat gcgccagaat cagacctccg tgtgaaaagg 240  
 tatgaccatt tgaatttctc gagagcttca gttgttcaat ttcgagcgtc tcgatataatt 300  
 atgcgcctga atcggacctn cgagtgaaaa gttatgacca tttgaatttc tcgagagctt 360  
 ccattgttca atctctagcg tctcgatata ttatgcgcct gaatctgacc tccgtgtgaa 420  
 aaagtatgac catntgaact tctcgagagc tttccgttgt caatttcgag c 471

<210> 29823  
 <211> 366  
 <212> DNA  
 <213> Glycine max  
 <400> 29823

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 ttctcaacag tcacatcttt ttatgtgggt cttgaatggc tatcataggc ctatatatat 120  
 gtgacttgag acacgaatat gctaagagtt tttcagaaca aaaaggtctt attctcttat 180  
 agagcaaaat cgatttatcc tcttacggat cccttggcca aattacttgt gattcaataa 240  
 cgaattattt gagtgctcaa attgttcaat ctatctcttt caagagagac ttctttctttt 300  
 cttcttcttc attctaaaaa gggactaaga gaccgatggg ctcttggtgt gaaagaattc 360  
 taaaca 366



<210> 29824  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<400> 29824

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 ggcacgaccg ccatgactat ggcgggccgc atcccaaacc cgcaacgcca ccgctattcc 120  
 gtggcggtttt ttgaaaatc ccccacgaaa aaccgccatg gccgccattt aacaacactg 180  
 ggacatgata ttcgattgtg aataagtggg tgtgctaaca cttgatgtac attaattata 240  
 ttgcgagcta tgaattatac aataaccgga ccagtgttat gcgcagtgtg aagagaaagt 300  
 gaagttccta ttaggaaccg gtgtaaatcg agcgcatgtg gtaaacaatgt ctgaacatga 360  
 gt 362

<210> 29825  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 29825

agcttgacca atttctcgac ccaacctgtg catagtcggt cagtgagaac ctgtgatgta 60  
 cctaaacagg cgagctcctg gcagtcaaca gataaaagga acaaagacca caaagcaagg 120  
 aggcttgtgg tggctggcca gctgtgaatt ctgtgtgata tatgggttgt ggctctgtgt 180  
 aatcgattac caagggtggg taatcgatta caaggcttaa aaatgaagac aggaggctaa 240  
 gatggtctct ggtaatcgat taccaagggg gtgtaatcga ttaccaggct tgaaaatgaa 300  
 gtcaggaagc taaggagacc tctggtaatc gattaccagt ctgtgtaatc gattacacag 360  
 aggaatgggt cactggtaat cgattaccag gtatgtgtaa tcgattacac agtgcatttt 420

<210> 29826  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<400> 29826

atatttggtc ataataataa tgggaaaatt tgccaattta ttgaaaatat atggttacca 60  
 cataaaaatg gattttttta atattaattg gttaaaacta tgaaccacct taactattta 120

ttatcaaagt atctgggaaa ccttaactta atggtaaaag aagtcattct ttcattatat 180  
 attaacagga aaaaaaatcc acaggaaaaa aaaattcagt agtacataac ttgatctatt 240  
 tggcttcttg ggtggttctt cttaagcatg cccattggaa tggtectaata tatatatcta 300  
 etc 303

<210> 29827  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29827

agcttgaaat tgatacaacg gaagttctcg agaaattcaa atggtcataa cttatcaccc 60  
 ggaagtccga ttcaggcgca taatatatcg agacgccga aattgaacaa cgaatgctat 120  
 caagaaatta aaatggtcat aacttgtcac atggaagttc gattcagatg catactatat 180  
 ggagacgctc gaaattgaac aacgaaagct cccgagaaat tctaattggc ataacttgtc 240  
 acacggaagt ccgattcacg cgcatactat atcgagacta tcgaaataga acaacggaag 300  
 ctctcgagaa attcaaattg tcataactta tcacacggaa gtccgattca ggcgcataat 360  
 atatcgagac ggtcgaaatt gaacaacana tgctctcaag aaatagaaat ggtcataact 420  
 tgtcacacgg aag 433

<210> 29828  
 <211> 484  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 29828

actaagcttc tcgatataat atgcgtctga atcggacttc cgtatgataa gttatgaaca 60  
 tttgaatttc tcgagagcat ccattgttta atttcaagtt tctcgatata ttatgcacct 120  
 gaatcagact tncgtttgaa aagttatgac catnttaatt tctcgagagc ttccattggt 180  
 caatttcgag cgtctcggtta tattatgcgc ctgaatcaga cttncgtatg aaaagttatg 240  
 accattttta tttctcgaga gcttncattg gttaatttca agcttctcga tatattatgc 300  
 acctgaatca gacttccgtt tgaaaagtta tgaccattnt gaattctcga gagcttccgt 360

tgggtcaattt cgagcgtctt gatataattat gcgcctgact cggacttncg tgtgataagt 420  
 tatgaccatt tgaatntctc gagagcttcc gttgggtcaat ttcaagcttc tcgatatatt 480  
 atgc 484

<210> 29829  
 <211> 500  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29829

aggggncnng gtttgagcat tgaatgacgc tatggaacta cgggcgaatc agctcgtacc 60  
 cgggatccnt agagtgcct gcggcatgca agctgccgct gtangaatgg cgaaaccacg 120  
 taaattaaag acccccattg aaatttggtt cgaaacagaa ccttgttcgt aaaatgtttt 180  
 taaaagaaac cctatacaat aaatttgccc tctaagcaat tgcacatgca gcctttacag 240  
 caatttcttg gacccttgga tacatctgat ggctgataat aaaatttaca aaatcaaaca 300  
 catctacttg cttatctcta cgtacgtgtt atatataata aaaaaaaatc cagtttttaa 360  
 ttattattca taaaatacct taattttagt cattataatn tataanaaaa tatttntaaa 420  
 ttgggttttaa gtgtgggtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt 480  
 gtgtgtgtgt gaggagtg 500

<210> 29830  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29830

ntataagtg cgggtctggga gttaaaggtc aagtgttcgc gatatgtgaa gatgatgttc 60  
 caagtacttc ggatttggtc cgaccatgct ctctgattt ccagctggga aattggcgag 120  
 tggaggaacg ccccggcatt tacgcaacaa gcataatgta aacctttacg gttttaaaag 180  
 ctctatagtt gggcctgggc tttagagttt tcattttgtt aaggctttgt gtctttcgtt 240  
 tttgaattta taatacaagg atctttcttc atctgggtct ggtctctacc cattctcatt 300  
 catttgcata tctacttctt tctctaaaac ggcagattcg atgacgaagt ccccgaaagta 360

ctaataacctg ggacccgtct atcaacttcg agcaagaaat gagtcaaacg gaagat 416

<210> 29831  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 29831

taagcttcca attttttaag ttattcctca aaactgtcct acgcaaagtt cccaaagtcc 60  
tattaacaac ttccgtttgc ccatcggttt gtgggtgaca agtgggtgaa aacaacaatt 120  
tagtgcccaa cttgtccac aaagtccctc aaaaatgcaa atcatcaagc ctaggtatag 180  
gatgcctata tttaatgggtg atgttattaa gggctctaca atcagaacac atgcgccatg 240  
tcccatcctt tttagggacc aaaatcactg ggacagcaca aggactcata ctatctctta 300  
cccaaccttt gctaatagagt tcatccactt gtctttgaat ctctttgggtt tcttgtgaat 360  
tacttctata ggctggccta ttgggcaaag aagctctcgg aatgag 406

<210> 29832  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29832

ntgcgaaagg cttgtcgtg gagctgacct atcaactgcc ctatctctnt cagtactgtg 60  
attcctanga tcttgacctt gacttgatag aacctctctt taagcgaaag cgtctgactc 120  
gatcccatgt tttactaaag tgaaacaaaa tccagtgcga atcanaactc tgacatctat 180  
catgggtgga atggatgaat acatgaagaa atgcatatga cacagatgca ttntatgaat 240  
acgggagcnc gggaaattgt ccccttctta gatacaacat tcgggcagca tcgcgcccgga 300  
cgtatgcatt taagatagca acacggacct tctgtcgggt tgacaaagtg aggggatcaa 360  
gacgcaatcc gtggatgatg cagatgcgaa aggacacaac cggngatgca tatagtacga 420  
caatatccac anatatagta catg 444

<210> 29833  
<211> 397  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29833

agctntgctt gtatcttcaa tggagaatga agaagaagaa aatggcaacg tgagggagag 60

agagagctgt ctgaaaaagt gtggggctga gtgaagagag agaaaagctt tttggtttta 120

aataaaaggg ttttctcttt ttctattatt ttatttaagc aatgccacat gtctccattt 180

gagtggagca aaaagggccc actttccctt tttgactgtg acccatactc agtcacaaaa 240

gtgaggaaaa tctgaccttt gaaacgctaa aatcctgcct cggtttgctg gctgtttctc 300

tggttccagt tctctgtgtt tctctgcgtc tgtcanggcc agttttcgaa agtacgcaat 360

atatatatat canaacgctc agaataaaaac cccgagc 397

<210> 29834

<211> 368

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29834

nttcgattca ttctatgtac ccgtagtggc ccacattggg tttcgtgcaa ttttattttc 60

gntntgggta ctttntatac ccctgggtga cgtgcttaag tcattttact taagtcattt 120

ctcgtttaac ttaaaaataa aataaatttc caccgaacgt ttgaattgta ttatccgtta 180

acttcgggta aaatgaattc cgaccgtttg gtcgtgccgt aaccacgttg gaaatcaaaa 240

agaggtaaaa aaataatata ataataaaaa aaacatcttt tagtaaaata aagcggaaaa 300

tcaatcggac attntctctt tgggatttct cattcttaat cgaatcgatt aataactaaa 360

gtgaaact 368

<210> 29835

<211> 411

<212> DNA

<213> Glycine max

<400> 29835

ttagcttatg acttttatta caagccttta tagagaatgt gggaaacaca aattaaataa 60

aaaatatata acgacttata aactagatgc atttatcata aaacatcgct atctaccatg 120

ttatatTTTA tataaagagt attaaaaatg cacaattaac tatttaaacc ataagagtaa 180  
 cgtaaacag ttataaaggt gttgacaatt taaaagctga tatatatcag acgaaaccta 240  
 tttggtgtat gtatttgga aatttcattc ataatagttc tttgctaaat gcaatcatgt 300  
 tagattgtaa agcaaaagga aagaaaaaca ttatttataa aaatatataa gagtcaagct 360  
 aaaagacaag tagtgataga tacggaattt tgcaatgaat tacggtataa c 411

<210> 29836  
 <211> 161  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29836

aagtgggcct ggttgctatt tgcactccca ttattactac atacaccctc atgccttttt 60  
 ttggttatac tgatcagcca agttacggaa cttactata ttctnnnnga tacttggtat 120  
 ctttccgtaa tggtagacaa cttgcagat tacattatca t 161

<210> 29837  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29837

agcttacacc ttgtttattg tttttttcct tatcaagcca tttctaactc tgaaaaatca 60  
 aaaaatttgt ttaggctaag atgcacatag acaaagctaa caaacatata atctaagctc 120  
 actatctttn tctctcaaga tatacaagat attttgagag cttttccagc ttagaaagat 180  
 tttgaatgca aaaagaatga aggetattaa tattgcttag atcaaaattc ataactagag 240  
 ctttttggtta tttatagatc ttttcaacag gtaatcattg tgagtaaacg accttctatt 300  
 tgtgggtgat gggatcatcta tagcaaatgt atgttgggag cattaaatgc gcgtccactc 360  
 tgagatgata aatactatgt gtatctttct tgagcaacac ttctctgga 409

<210> 29838  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 29838

tcagactgaa tatgaaacag tgtctcatta agaagaaact ctctgtaacc aaaatgccag 60  
ggaagattgg gtgaggtag ggagtaagaa ctgagctttc tttcatgtc aaactgttgc 120  
tagaagaaca agtaataaga ctcatgggtt attccttaat gcgtgtattt gttgcaataa 180  
ctgtgatcaa cttcaagctc atgttggtga gttcttcaag aggctgaata gtgttactga 240  
aggtaacatt atgcatgtat cccttctct tgccccgatt ctttgtggtc aagactctat 300  
ctctttccca ctgatacaa aagaggtgca tatatgctct gcagagcatg aaatcttatg 360  
agtctctcac gccagatggg tttagcctct cttctat 397

<210> 29839

<211> 403

<212> DNA

<213> Glycine max

<400> 29839

agcttcaaga tttatggcct catcaaacta cttgtttccc gagggaaatt ctataaatag 60  
aactcccatc tttaatggag tgggttacca ctactcgaaa actcgcatgc aaatctttat 120  
agaggcaata gatttaaata tttggaagc catagaacaa ggaccttatg ttccctctat 180  
aatagccgga agtgcaacga tagaaaaacc tagagcagat tggactgagg aagaaagaag 240  
attagtacaa tataatttaa aggccaaaaa tattattaca tctgccttag gaatagatga 300  
atactttagg gtttcaaatt gtaaaagtgc taaggatatg tgggatacac tacaagtaac 360  
acatgaaggc acaacagatg ttaaaagatc tatgataaac acc 403

<210> 29840

<211> 213

<212> DNA

<213> Glycine max

<400> 29840

ggaatcggac ctgagtgtga caagatatga ccattttaat atccttatag caaccgctgg 60  
acattatcca gtgtctctat atgtgatgcg ccttaatcta acatccgtgt gaaaagttat 120  
gagcatatgg atatctcaag agcttccgct gaacaatttc gagcctctcg acatattatg 180  
cgctgaatc ggacatccgt gtgagaagct atg 213

<210> 29841  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29841

agcttggctt atttcgtgaa gagatatcgc ttagcggata aacaatctaa aaatttttct 60  
 tagtcattnt ctgcttatct cttcactcat actttaaaaa ccctttttgt tcattaatac 120  
 acaagctgaa ataaatcaca atcatcaaca agatgtccta actacatgca agaaataaaa 180  
 ataaagatac agaagggaaa gaaaagctgg gttgcctccc agtaagcgt tctttaacgt 240  
 cactagcttg acgcatcatc ctattatcca ggatccatta aagttccac ttcaagcacc 300  
 ttcttctcaa gtcttctttc ctccatcaca tgaactttaa aatagacatt ccagtcaggt 360  
 ggctctntat cttcatgaaa tagatcanag ctgattnttt gatcttctat tcccaattgc 420  
 aacatc 426

<210> 29842  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29842

tgagcttcat tcgcagatcc ctcatgtaag actacactcg atttagatag ttctcttagg 60  
 tttagactaa gtttaactga gtttcatctg tagatccctc atgtaagact agactcagct 120  
 caagtagctt actaaagttt agcctaattt agcctaagct tcgtctgcga tgggtgtagtt 180  
 tttaggaggg ggtggcttgc ggtggtggcg gnggacagtt ttgatgatga ggggtgaagaa 240  
 gctgacgagg aaggcataga caacgagagt gccaaagtgtc tagatgaaga cctagcgact 300  
 aacaatgatg cagcccagat atatgtacct tttcttcttc tttntatggt ctcctttgcc 360  
 caagagccag ctatgttggg tctcatccaa agcacctcgg tccagctcat ggagattcgg 420  
 tggcggagtc tatggtgtga atctcaagca ggcctcccca cagatcccta ctgtgcatac 480  
 taatt 485

<210> 29843



<211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29843

tttagttatg ccatgntttt gcatatagag aagtgaagta gccgttgaag caatagaaat 60  
 ttcataagag aagaaagtag cggattccag gtatgcttaa aaaaagacta ttcaagttca 120  
 caagtttagt tgtttatctc cttaagattg ggctggctctt cagtttattg aatggatttg 180  
 atttttgcaa gatcacacct cgaggaaagg gtagctaaaa gtgcatataa aaaatgccat 240  
 gttttttttt tctgttagtc tacaaccaac cacaagtcaa tcgaatgaat tcttcaagca 300  
 aagatatcag aaagactaag aaagagatat gcaatttaca acttgttgtc tactttcagg 360  
 aaatgttcgg agtagaacac ttacaataat acaacgtcgt gttctccaga gatg 414

<210> 29844  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29844

agaacagtac gttgcagggc gcgtcaacac tcaaaagtgc acgatgacct taggntgtgt 60  
 ttgtgcgaaa aaaacgcgac gcagaggtag cggaggctcg acaatgtacc cttccttttg 120  
 caaaactcac ggtgggtgcaa gggagattga gctcaatagg agatgccgac tgatagcaca 180  
 attttcagat agtgatttct aggtacgtgt gttcaattag cgtgcaaggg ggacatatat 240  
 gaaagcatgt taacgacggt gtatntgaaa acccgtcttt gagagtcaat atttctatga 300  
 tggtgtttac aaatacacgg tctttgataa gtcctggcct aaccaacata gatggtgtta 360  
 gcaaaaaacg tcgttgtaga catcacgcgc catgcacatt 400

<210> 29845  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29845

agcttggagc tttcttacta catttcgctt atacaacagc ggggtgtataa gacattcaaa 60

gagggatttg aaccatcttt gtagccaacg tctttgagag ttaagacttt ctacgacagt 120  
 ctcaagaaaa accgtattag aaatgaatat cattctaaga tgatttttaa ctacaaacct 180  
 tcttagaaga gtactcttct aagacaatta ttcagagAAC cgacttaaag ggatattctt 240  
 ctgagacgga tgttatataa gaaccgtctt agaaggtcgt agaagggtac ccttctaaaa 300  
 ctgtcttaga atgggaccct tttAagacga ntatctgaag aaccatctta gaatataagt 360  
 nttttaaaaa tataatgaca ataagatctt agagctttgt caatatacat tgtgttttta 420  
 taatgc 426

<210> 29846  
 <211> 206  
 <212> DNA  
 <213> Glycine max

<400> 29846  
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 acacccttgc ttttttgctg atcttttccg aacgtacaga acttacaata cgaacgaagc 120  
 tttttccttt gaatgtacgg accttacgat acgaatctcc tttttgcctt cgaatgtaca 180  
 attttacgat gccactaaca ctcctt 206

<210> 29847  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 29847  
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 tcattttcaa gcacattgca gaatttcaat gaaaagtgac ttgttattac aaatagaaaa 120  
 gttatatttt gtttaattac aattcaaaaa tattattcat ttttgaaaag taattacaaa 180  
 tatacctttt ttagaagtaa ctcaataaaa cttctcaaaa taatcagaaa tatatttttt 240  
 caattttttt ctcaaaatat caaatgaata cattaaatat tttAataata atattttctt 300  
 tttcaaatga aaaataactt ttcataaaat ataaattaaa cagacggact tgtaattaga 360  
 gatattgtcc gcctttagtt taagcttcag agtcattaat ttatgttcat tatgttc 417

<210> 29848  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<400> 29848

ccattgctac caccaacttt aggttctacg acttcaagct taagaagaat tgggtcagct 60  
 atcacttttg tcaagacatc attgacagaa tcaaagtaat gatcaccttt cacaaggttt 120  
 gttcttgaaa actttttaac acccaggaaa agaaaggcca ctaaattttt ggagctcaga 180  
 gaaccttgat tctttagttt ctccgagttc taaccttttg ccaataagcg aggccaaaca 240  
 gcttcctaga agatatcatt acttttggct ttgcacaaat tggtatcccc cagtcaaattg 300  
 cttgattata tcaact 315

<210> 29849  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 29849

agcttaagct ccttggtgct tcccttctta gctcctcgga atttggttcg gccccattct 60  
 tcctttcggg cctcttttgt ttctcgttcc aacgcttcgg cggtggccac attgatgtct 120  
 cttagtttgt cgcactctct tcagaccttg atggctgtcg tcttgaattt tttcttgacc 180  
 gcttggtgcc tttcaagttc cacctttaag gcttgcacct cttcgctctc cttagggggt 240  
 tcagcctctt gctcacttga aacctttatc ttccgggagcc aacctaactc ttgcatctga 300  
 gcctttattc agttgagata gccgtatgtc gcaacctacc gtattgcggg agggcgacgc 360  
 gtgactcgcg ggatgcgtg 379

<210> 29850  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29850

gaatcaacct tgtttgtttg acattgtcaa caaatattga ccatggtgag caagcaattt 60  
 caaacttctt aactcatcga acccttgctc agaaggcaat ccacgagact cctccatgct 120

tccatgacat	aatcccatgc	atTTTTTTta	cccacaaagg	ttttatatatt	tgccttcaca	180
ttcttatcaa	tgtgaaacca	acacaacaag	ttgggttgact	tgggggaaaat	agtttttcatt	240
gcattcatca	atgttgaatc	tctatcagta	acaataactt	gaggggattgc	atcacgtctc	300
agaaaaatac	ctcanaacca	ttntagagcc	canacaacat	ttgttatacg	ttttcccttc	360
aaataggaaa	atgcagctga	aaatgtcatc	ctaattgggtg	tcataccaac	aatgtcaagt	420
aaaggaagct	tgcctctggg	tgTTTTTggat	gactat			456

tggctggaga	aactgataac	attatgctta	ctggtgaaag	cttgagatat	agtactgac	60
aattgtactc	ccagaagaga	ctcataaagg	tctcccttaa	ggcgcttggt	tctgcaacat	120
acgcgcctgc	aaactctacc	agatctcaac	attctcaaga	cagttcatta	cctgtaactc	180
taagattgat	tnttcagaat	gtagataagt	ttggagggtg	cattttattat	tcagctggta	240
ctggtatgag	cgatataatc	cacanagatc	caacctgttt	ttctgctctg	catgaaat	298

ctaagcttta	gtactacaac	tgaattttac	tgagcctggg	tattcatgta	cgatgcttag	60
tggctgggtg	aagatcctca	gaaacacctt	catatactgg	aggaataatt	aataaaccaa	120
ggattgcaca	ttccttgtga	ttccctttca	agccaaaagg	aattagaggt	ggttctgcac	180
ctccacgagt	ttgatctatt	gcaggataaa	tagagccatt	attatTTTTc	tgcagatcag	240
tttcttcagc	ttgttgatct	tcctgtacac	agcctgaaac	agattgagta	acaactaagt	300
caaacttcag	aatangaatg	atctgcaaat	tatgaattgt	aaaacagcac	tatgcatgca	360
ngggattttt	tgctctcagt	gggtgtcaat	cttaat			396

<210> 29853  
 <211> 390  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29853  
  
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 ctttttataa tttaaagtaaa acatataatg ctaaattatt ttttagttaa gatatccaaa 120  
 tatacaaaaa atatattagt tattcaaaaag taagtatgat atgattgtca tattttgtct 180  
 ttttattagt ttatttttct catctaaaca caacattagt tttttttttt taaaagcccg 240  
 ttagttctat ttaggatgca aataacaaga tcagacaaat aaagtaagtt gaaggaagat 300  
 atagagagga tgggattgga atagtagaga aattntgaaa ggttgcaaga ttaatattat 360  
 atatttaana tagatggaca gatatcactt 390

<210> 29854  
 <211> 444  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29854  
  
 ttgatgctct agttingatat ctatcanaga cattaaaaaa ttatttataa ttggttcaca 60  
 nacaaaatgc aaggctgcta ctaggtggat tgggtgtaaa gtaagtcatt taaacaatgc 120  
 ttctaatttg tattttatta ttgtgtagac taatttgtag ttaacattga atatccaaat 180  
 ttcataatgt atctagtgtg atagacaaaa aggaatcact gaatgcaggt attacgttat 240  
 gcactggatg tcaactataa tcttagtaag tttcaagaat aattgtgaaa agataattgg 300  
 ttaattcaca catatnntca ttttttgtaa ttgatattat atattattaa cttatgtctt 360  
 attatatcat gcagtatttc aatgatgcta gaccattaan accagagaga ttgaaggcac 420  
 ttgcacatcta gtgggcaaac tact 444

<210> 29855  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 29855

agcttattcg ttgccccttg aattgattgc caagctctgt tcgttcatga atcctccgcc 60  
gaattgattg cctaacgctg ttcgtgcatc ctccatcatc aaatcttatt cggagcccca 120  
tgaattgatt gccgttcatg catcctcccc attgagtcgg gagccatacg aattgactgc 180  
caagctctgt tcatgcatcc tttatcatca aatcttattc gaagcccat gaattgattg 240  
ccattcatgt atcctccacc attgagtctg gagcccgccg aattgattgc ctagtgttgt 300  
tcgtgcatcc tccaccatct tttcgtagc cccatgaatt gattgttgtt cagcgcctct 360  
ccaccattga gtccgaagcc ttacgaattg actgccgagc tctgttca 408

<210> 29856

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29856

ttataagtgc gggctctggga tttgaaagtc aagtggctgc gatatgtgaa gatgatgttc 60  
caagaactct ggatntgggc cgaccatgcc ctctgattt ccagctggga aattggcggg 120  
tggaggaacg ccccggcatt tacacaacaa gcataatgta aacctttacg ggtttaaaag 180  
ctctatagtt gggcctaggc tttagagttt tcatttttgt aaggctttgt gtcttttgtc 240  
tttgaatnta taatacaaag atctttcttc atctgttctt ggtctctacc cattctcatt 300  
catttgcatg tntacttctt tntctgaaac ggcagatccg atgacgagtc ccncgaaggt 360  
actaatacct gggaccgctc tatcaa 386

<210> 29857

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29857

agcttgtctc ttagaggctc aggaaggaca aggcggccga aggaactagt tccgccccgg 60  
agtacgacag tcaccgcttt atgagcgctt tacaccagca gcgcttcgaa gccatcaagg 120  
gatggtcggt tctccgggag cgacgcgtcc agctcaggga cgacgagtat actgattttc 180

aggaggaaat atggcgccgg cgggtgggcac cactgggttac tcctatggcc aagtttgatc 240  
 cagaaatagt ccttgaattt tatgccaatg cttggccaac agaggagggc gtgcgtgacc 300  
 tgagatcctg ngttaggggt cagtggatcc cgttcgatgc cgacgctatc agccagctcc 360  
 tgggatatcc gatggtgttg ga 382

<210> 29858  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29858

tcanacaaaa gcaattcana atctaggtgt ctaaaacccc tcaatttagt ggattntcaa 60  
 ggtttgaaaa gtgaaaatga aaatggggta attntggagc aaactctcat ctcaaacaag 120  
 tctataacat taatctaaac ttgctcaaac tagttntacg acgaanactt caccgaatca 180  
 aaatttgacc cctcaacacc caatttacc tagaaatggc tcttgctttc actttgggtca 240  
 ctcatTTTTc tcatttgctc agtccaagct tccccacaag tcctaaatga cattntaaac 300  
 taggattaac tcactttaga ctccattta cactaacccc aaatttagct tctctaaccc 360  
 tcanaatctc acacttttct acctacaaca ttgtcattct cacatttaac cctaagtaac 420  
 tttcccttc atctcta 437

<210> 29859  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 29859

tatcatgcaa gcttgtgtta tgtctatagc acccacctg acgtcccaa ggtctcctga 60  
 ccccgcgac atatctccag gtaccactct gtggtcaaca ataaaagcag gaagtttcac 120  
 ccttcaacac ttctcatct caagcttgta ggattatggg gtaccatca catgtggtac 180  
 taagtggcag acgggcgatg gtgcacaaca tgttttccac atccacaatg cgcgcataaa 240  
 cccaccatcc gctgttgccc acctgcaact gaactcacgt actccacgt agccatata 300  
 ctggtttctc tccacaccgg tccccatcaa tctcccaag ctttcacagc atccgatcag 360  
 aacaacattc aaacagcaca agcta 385

<210> 29860  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29860

taaagcatgc ttgagtcatt catccctatg agatgttgct gaagtattgg tgatcagaat 60  
 tgccattcct tggattatan ggttgaacca agctcatgct tttaaaaaa ggctcatcaa 120  
 gtcaagttga aatatggaag taaccgtctt gcaaaattgg ggcaaaagat gaatcgagtc 180  
 acatcactgc ttcgtctact gccaaacata ttaggatta ttgatgtcct tgttacttcc 240  
 agtttcacct tgacaaagat gtcattggacc atgtcgaaaa tctaaattga ttcaacccca 300  
 tatcttgcgt aaaaattcgc aatacttcaa ctgtacatca ttcgcatgca tccatgcttt 360  
 tcattgggtg cattgctcat tgcattcttt ccttgaaaaa ctacaataaa tataataaaa 420  
 tgaacttaat ca 432

<210> 29861  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29861

agcttgcagc ttccataaac aaaaaggaga caagaaagct ntanaaaccc accaagaatt 60  
 cataatctac aacaccatca aacccatagc tntaaaatcc ttggttgaaa aaaaaaaaaa 120  
 aaagaagcaa tattttacaaa tgacaaagtc aaacatgcat ctaggcacat cacgtacacc 180  
 cattcaaaac atagaaacac tagtttttta aaaatattca caaccatgct ttccgtcagc 240  
 accgcaacgg tatcacaatt acaattatgg ctacatcggc cgtattaatc tgcaattntc 300  
 tataatgtca aaggatcacg atgaaatcgc gaccccgacc ataatttaga atcttagaaa 360  
 caatattggtt gcagtgacaa ataaagaatt gctgacagaa aagcaaaaaa 409

<210> 29862  
 <211> 288  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 29862

tagttgagct ttagtntgca tgagtctttc ttttgcagat aatgttattt aattctgctt 60  
tgtgatgcta cttgggttttg tgggggtggg tgtttacttg actgtactaa gaagtgaaat 120  
tgagtatttc gtttttattg catgatacgt tttcttttca tcttggcatt tgggtgcattt 180  
gacttatttg tatattcatg atcatccatt aaattgataa tgtgtattct tgttgagat 240  
ttgtttttaa agatggaaag atggtgtcgc aacatgcctt tttgcggg 288

<210> 29863  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29863

ttggaaggta gtcatacctc acaaaatata tatatatata tatatatata tatatatata 60  
tatatatata tatacatata tatatatata tatatatata tatatatgtt tagggagaaa 120  
gataccttgg atatgcatgt atgtagcaaa aaaaatttca caaaatatat atatgtatgt 180  
ttaggtagca agataccttg gatatgcatg tatatagcaa anatatctca caaaacatat 240  
atacgtatgt ttaggtagca agatacctgg gacacacatg tatatagcaa aatacctcac 300  
aaaaatatac gtatgttttag gtagaaaaat acctcatgag aaaaaagaga gcgagcaaga 360  
naagaataag aagaaaaaaa anatagagag agaaataata naaaaatata taanataata 420  
gagg 424

<210> 29864  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29864

atccttatga cttgcctccg gacttcaccc nccgtgccac cccggaagat ttaagccaag 60  
ccctacttt tgaggggcaa ctcccgctt acgacgacta tcccgggcaa gacgatgagg 120  
aaggagatac ccatcttggc cccctgctcc acctgaaaga tccgtcccca catgaactac 180

cccaacaaaa catagtccgc catgtcccg cctcaccac acccgtaaaa gaatctgttc 240  
 ccttcgcgga agataaggga aagattgagg cacttgaaga gaggttaaga gcagtcgagg 300  
 gccttgga aa ttaccattc tcggatttgg cggatntgtg tctcgtgccc aacatcgtca 360  
 tccctcccaa gttcaaagta ccagactntg ataagtacaa agggacgaca tg 412

<210> 29865  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29865

agcttgtagg attatgggg acccattaca tgtggtacta ggtggcggtc aggcgatggt 60  
 gcacaacaag tttccacat ccacaaagcg cgcataaacc caccatcccc tgttgccac 120  
 ctccaactga gctcatgtac tcccacgtag cccatatact cgtttctctc aacaccgggt 180  
 ccccatcaat cctcccaagc ttccccaaca tccaagtaac tcaacattca aacaacacaa 240  
 accatcacag ccaagaaaac agggcaaagg cagaaaactc tgcccaaac accaaccaaa 300  
 atcacagctt ttctactta nagaccccag taacaattcc ttcgttccaa ttcgttaacc 360  
 gttggatcga ctcaaaaagt ttactggaag tctctagtag ataagcctac attntgaccg 420  
 ttgggat 427

<210> 29866  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29866

agcttgcggg gcttatgtat tgtctaggac ccacaaagtc tacgtggcat tctacttgac 60  
 actcagagac atgtgtcaac ctccacgctc aatcctgtta caggagcgtg gaaacctgac 120  
 ccctagtagt tggccttccc aacaaacagg ttatttctaa cctaactaat attcaaatgt 180  
 gtttgaatat tttatctatt ggcatatatt aaattatcta taatgccaca ttatctacaa 240  
 ggtatgatta tcttctacct ttatctataa ttcanatggt tatctctaac attatctata 300  
 aactcccagc tattatctat aagccgagaa ttatctacaa ggctacaata atccctaana 360

acatcctcgc tcaactaata taaatacagg ttccattgaa caactctaca cgacttgctc 420  
 acacactcaa cacacaacaa caagcctgtg ttccctctctc tcgctcatac gaagctcatt 480  
 acaaca 486

<210> 29867  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 29867

agctttgaaa ttttttaaat gctattaact cttcactcgg atgtccgatt caggagtatc 60  
 acatattgag acgctcgaaa ttgaacaacg gaagctctcg agaaattgaa atggccataa 120  
 cttttcactc ggatgtccga gtcagggtgca tcacatatcg agacgctcga gattgaacga 180  
 cgggagctct caagaaattc aaatgggtcat aacttttcac tcggagggtca aatccacgcg 240  
 cctcacatat ccagacgctc gaaattgaac aacggaagct ctgcagagat tgacatgcta 300  
 ataacttttg actcggatgg tcaattgatg cgcatacat atcgagacgc tccatattga 360  
 acaaccgaag ct 372

<210> 29868  
 <211> 538  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29868

cgggcgagcg ttganncccc ttctatntan cngacactat agaatacttt agcttccttg 60  
 tggagcttct atggaagctg gatctttgag cttcgatggt gtccttcaat ggtgattctt 120  
 taccatggag atgcagcgga aggccaaagg aaagaggata aggaagcgc cattcactat 180  
 ggaataagcc caggaagaat gagcttcacc acccagaatt ggcttgata aaaagcttga 240  
 agaggatgct tttatggagg aaaagaaaga aagaaggag gagcacgaaa tttgaagaat 300  
 aaaagaagga aagaagtga acttttgagt ggatctcata anactttcat tcatcaaagt 360  
 tacaacaagt ggtacacatg cttctattta tagactanag agcttccttg agacgctttc 420  
 ttgagaaaac tctcttgaga agcttctttg agaaaacttc ctttggaagc tagagggtag 480  
 ctacacacac cctctcata acttagctca cctccttgag aagcttctta agagaatg 538

<210> 29869  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29869

agcttaagaa tatatatttat aaaatattat aatctattaa taaatttaaat gttactaatt 60  
 atattaatca acttttttaa agaataaagaat ttaattaaaa gagtcttata tttaagaatg 120  
 aacactatatt tacacttcan atgtatcacc tatttttctaa aaattatata taataaaaaa 180  
 cttaaaaagc atgcatgcag ataataattct ttatgataag ttaatatcgc atgattgtta 240  
 gatggcatca cttttttcac taaactcaga tgcacttgct tcgtagatat taccatatgt 300  
 atcaatgagc aaacatgctt gatagagttg ttttgcgat acctttcatg agtgggtgac 360  
 antgctaacg aaaacaaatg ggtcttgctc cgattgacat gtacttccaa ccaatcggac 420  
 c 421

<210> 29870  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29870

agctgcatgc cccacctaata gacatcttct agaaatgtaa gtcaagtatg gtagcggctt 60  
 gattaactta taaattgcta tggtagcatt aaacgaccaa gcatatacca caccatattt 120  
 ttaaatcttg attccttaata caaggttgat ttttttgtaa tttgctgtgc tcaagacaaa 180  
 atatctggta accatttgac tggcttatgg tgcatacttt gaagttagaa tttggaatga 240  
 agaggaggag cataatccgg ttattccttt agataaatcc cgccatgaaa ttcggagagt 300  
 gcatncattt gtagttctga tatgcacttg anagatngtg gatagcaagt acactac 357

<210> 29871  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 29871

agcttgctca tattgtttta cacatgaaaa agcatacacc tactcattgt attgaattga 60  
aaaaaaaaatt gacttgcctt aaatatgatg ttttatgagt tatttgtgaa acaatatacg 120  
atagtatttt tgtatgttag aaaactattt tatacaaaat attattaaag gataatattt 180  
tctcttaatg aagcttcttg aaattggtac tttgacatat ctttaagactt cagaaattga 240  
ttgttttttt gcaaaaaaag acaatcaatt aagtatcatt attcaactct ctttctagt 300  
acattttgat ccactttatt tgtgtgtgtg tgtgttgcan aatttaattgt gtattaaatt 360  
aatttcatat tcaatttaat ttttcattaa ataaataaat taaagt 406

<210> 29872

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29872

tcagggtcaat ggccactggc tgaaaccatt cctccttagt ggatgtagtg gtggaggaga 60  
cctccttact tcaccctact tcttttctgc catgacttgn ggagtcttct tcttctgtc 120  
tccttcttta cttttattgc acttgtcaa attttattga ttgctttgat tgttcttgat 180  
cttatgattg tgctacattg aggacaatgt gttgtttaag tgtgaggggg gagaagattg 240  
ttctttaatt ctgttgggta ttctaagttt aatttattag gttctctagt ttaagttttt 300  
taggttctac gtttaactttg ttattttggt tntatgtttg tgtacaacat tgcattgtcc 360  
tctttgaatn ttgggttatg agaggtaatg tgtaattggt tttgaat 407

<210> 29873

<211> 374

<212> DNA

<213> Glycine max

<400> 29873

atttttttat taatggaact tatctttttg gcagtaacac attaaattca ataatcggtg 60  
taacacatca tgtgtcattt atgcgacct atgggttgct tgatattgct tctgtttcac 120  
tagctaattc attgactctc ttcccatata ttgatgaaat atttgagaag ctggactata 180  
taggcataaa ctactatggg cagggttgct ttattaacct tgagagtgca ctgtgcatga 240

tatctgacat actcacatga caattctcac atttatntta agaagtgggt tcaggtgcaa 300  
gcttgaagtt ggtggaaaat agtgagtaca gtgagtctgg tcatggggta taccctgatg 360  
acttatacca catg 374

<210> 29874  
<211> 416  
<212> DNA  
<213> Glycine max

<400> 29874

ttgataccaa ctgaaactac tatatatgca ctaaaagggg ggaggggggt gaatagtgtc 60  
tatcaaagaa taaatatttt cacaataata gggatagtat ggataataca aagataaaaa 120  
ctgattgtcc actgagaatg aaaagactat gtaatgaaga atagagtgat tgtctagtga 180  
caaacaaaag ggtcttaaaa caatttttca aataagtact tgggtgtaaag tgatgttaga 240  
aaatgtaata agaatactcg ataaaacaat atggagtga gtaaaaacac ttggtttata 300  
ctggtttgct caacctaagc tacatccagt tctactttac tcaccagtaa agggttccac 360  
taatcaaaaa ctgattacaa caagtattct aacctgtcac ttcttgcttt acaatt 416

<210> 29875  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29875

agcttcacag ttgntttatg acactcccta ggtcatgaca tgatctcata tactaaactt 60  
aattcgtgtg cttaaaaaac attttaatac atatgactga gaattgttaa aacttgcagc 120  
taacattcta ttttactagt attataacgg agtctaattg atgtgacctc cttaggtcca 180  
gtacgggtgtg taagtnttta acggtcattg gatacagtgt taaaaaaatt aaccatagag 240  
atnttgaggg ataggggtgt cataaagtat tgaataacaa ttgtcagcgg cacccggttt 300  
taaaaaatntt gggctctataa aaaatactaa ttaagaatnt tttatatnta agtattntaa 360  
attagacaca tgatataata tgatcaaaaa atatatacat tctatttcat 410

<210> 29876

<211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29876

acccacacaa ccatgatgca ttgtttaacc ttggattggn ttcaaaaatg gaaggctcgt 60  
 tacaacaagc ggcagattgc tttcaagctg catatgaact gaagctttca gctccagtgc 120  
 aaaaatttga gtgaccgaga ccttgggagt actggtaagt ttttgtgggt gagttcaacc 180  
 aagagcatta tacaaaaaac catgagcagc aactgatgga aaagaaaacg taccatggt 240  
 taatatttgg tgagaaacct atatagtagt tatatctagc tacttattta tagatttact 300  
 tcattatgtt ccaatggaat gtccttcaca tttgacacgg aaggacagaa gtttggcttc 360  
 ccaagtggta tagaattctt tataacataa t 391

<210> 29877  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29877

tttagcttat cggtttatgc acattgcata agcataaacg gatctttgag gacttgatac 60  
 tgatcaacaa attaaaaaat atatatcttt ataatttcat gatcatttgt ccaaggttat 120  
 tactgaataa agtggattat tagatctagt aatattctga ttntacactt acgcatttca 180  
 taattaactt tgcttatagg ttactggaag ggctttgcag gactcagtac aaatagtgac 240  
 taagttttct gagatggaag agacatatc ttctcttggg tctcttacgt aatctatagg 300  
 ttaagctttt tgaaatatat tttccattag aactcgtatt ttctcttact ttcagcatct 360  
 gtatactaaa ctatattctg cataatat 388

<210> 29878  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29878

tagagcgagt tcagcactact ctttgtgtta acccagcgc gctatctgaa aataaaccaa 60

aaacaaagac agtctcattc tcatagtact tgggagtcac acggtcgggt ctcttctctg 120  
tcactttggc taccactaa gaaaaatcga tcctttcttc tcttccatac gcttctttct 180  
cttctcttca ttcatttcaa tttgtggtgt tagtgaaata ataatgaagg ggtagttgaa 240  
cattcaaaca acccatgccc tcatttttat gtgtgggtat ggtctcatta tcttcaacaa 300  
atacatagta caattactac aatgctgtat ctgcttctgc gtggntctta ctcaatttct 360  
tctctttctt cccttcttcc tcgatctcaa tcttcccaac t 401

<210> 29879  
<211> 414  
<212> DNA  
<213> Glycine max

<400> 29879

agcttcatcc tcagattcct aatttaagac taggcttaat ttaaacaaca ttatcatcac 60  
aacatattta gaaaaccaga accccacaat tcatccctgg taatgtagtt atttagccct 120  
gcttctatca agttctacag caacagtgc tttcccaatg ctaaagtcac ctaacaatac 180  
acacaaatgg gtgatcagac caagagcatg caagaattaa gcattgaaca cacaaaacac 240  
aattaattag atattaaagc taattacatc aattgttcct tagaaatccc caactagggt 300  
gttttagccag ccatacaaag aaaccctaac acaaatgaga tagagagtac aaaataattg 360  
gtgcttacac aagaaagggt atccctctct ctcttttaag caccttacia tcac 414

<210> 29880  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29880

ntgaaagtgg attccttggc cttcatttaa ttacaaacac gtttgttcct nccgtgactt 60  
ggataaattt taaagtgtgt tcaaccgaaa tttaaaataa aaacagaggg ttgagggggc 120  
ccaaattgaa agcaaaaata aaaaaggatc acaattcacg aagtagttaa aacttgaaga 180  
gaataccata aaattaatta tgcaagttgt ccactagccc atcttgtcca atcaaataaa 240  
cctaaacttt cctcatggga ggtgccatgt gagggctcta tctctccata ntttattaat 300



atcatattca aaccacattc ttgttagta atctttcatt tcnngttatt agtcaaactt 360  
aacttccttt tctttcatta cccctcagat taatacgcca cttatttcat tctcanatat 420  
ccgcttcaaa ataatagtat atta 444

<210> 29881  
<211> 379  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29881

agcttggtttt gttgaaccac ctaattactt angattgaag gtggttgat cactatcctt 60  
cgctcatgtt aaacaaggaa agctggatgc aagggttgca aagtgtgtgt tcattggcta 120  
tcctaaagaa gttaaagggt acaagctatg gaaattgaaa cctggtgaga caagatgcat 180  
cattagtagg gatgtaacct ttgatgagag cagaatggca atgctaagca aggagctgaa 240  
ggataacagc tcaagtagtg agagtaccaa atttgacgtg gagcattcta agatttcaga 300  
tcatggcagt ggagatgcta ttgatcacac tgattaagca gaaactggag ataatgaaga 360  
gctggctact cagcatgac 379

<210> 29882  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29882

ntgtgccta tagacgtcag gatgtactga ctgttgccct tggatgacca gagcaccctg 60  
ctcgtgtccg ggctactaga gtcggtgtca tgaccaaaca atactttgga ctggcttcaa 120  
aaagctctca cacatctact tccatggcctt ttgaagacct ggagcagctg acaaaaaatc 180  
agggactagt tggaggagtc aatcactaaa aaatgactcg acaactaatg ctttcattca 240  
accaaagca atcctagatg caatcataga tacaattata gggactcgta ccacctctg 300  
agcctgaggt tagtccttct gctgcctgtg togatccctc gaggaaggac ccaaactg 360  
gtgcatcaga taggcgcggg ttgtatgtca atgagaattc tcct 405

<210> 29883

<211> 385  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29883  
  
 agcttctata ttctaattgtg ctaacagacg attccacaaa ccatcttgac ttcttacaag 60  
 tctttggagc atcgctaaac acattagaca atcaatgaga gactntagtg tgaaaattta 120  
 tcctaatect atccctatgc tcagggttcc acatcaccaa cctctatatg aagagaaaaa 180  
 aatgtttgta taggagacac tgaatatatt tcaatgttgg tataggaaac actgaaaatt 240  
 ntatggcaac ttgagccatg aaattgcaaa aagaagcatg tgggtataaga aatatagaag 300  
 cctcacatct aanagtgcaa attanataaa attntaattg aaaaactaaa tctatgtttt 360  
 tgggtacataa cacttaattc acatg 385

<210> 29884  
 <211> 445  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29884  
  
 tgggtatcat ctggtggggtc agaaatggnt tctatacatt gactttacac caagaaattc 60  
 ttcaagatct caccaggtta ttctacagtc tgaacttgag ttaacctata tcattttgtg 120  
 tgagcgggtga acctatgcat tatgtgggtg cttcattatt ttgaattgct ttctgcatgc 180  
 caataggggt atacatttca ttgtatctga gaccaatgggt ttattctgat aactaaggat 240  
 tttaaaacaa atgtgtccaa cttcttcaact tcgattaatg gcaagtgaat attggaactt 300  
 tcccaatttt atttataagg gtttgtatag aaagaatcct ttcacttgct ggagatntga 360  
 caaactgctt gtaactggaa tcagcatcgt atcttgtaat gccataacct ctgtgaatgg 420  
 tatnggatta tataccgtat ttaat 445

<210> 29885  
 <211> 395  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29885

agctttcttct atggattgaa aacttgctta aatttgatga gtatcaagca cttaatatca 60  
attgtcgtat aaagattatg tcacaatgga aatatttttc tccttttcca aggcatgaat 120  
gattttcaca atttagttgg aaacatctaa attttttgaa ttgaagataa ttcggtntaa 180  
aattttccta actcaatatt gtttgtaagg aattttatat agttgattat cttgatggac 240  
ttatggacac tgacagtggg atacgaaaca ttgtttcaat gtttgaaatt gctaatatc 300  
tatccattnt ttaagtacat catcaatctg aattctcaat taatgtgatg ctnggtattc 360  
aactnttatt tatcataatt nttttcatgc taagt 395

<210> 29886  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29886

tggtgctgat gccgcacggn ctgatgatct cattcaatgt atgtgtttca tacgtcaagt 60  
tcccttggtt gtattgtatg attcaggtgc gactcattca tttatttctc gtgtctgtgt 120  
tgaaaaactt gccttgctg tgtcttctt gaaattttac ttgattgtga atacacctgc 180  
tagtgggtct gttntaactt ctgatgtgtg ttgcaatgt catgtcttaa tttctgatag 240  
acaatttctt attgacttag ttgttctacc ttgagtcag attgatgtta ttcttggtat 300  
ggactgggta tcttccaatc atgtcttatt aaattgtnt gagaaatctg ttggctttct 360  
tgagtctggt gtgagtgaaa gtgatatgt 389

<210> 29887  
<211> 210  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29887

tagcgcata acagagatgc gcttaacgcg aggcttgtgc ttagcgaaag gactatntgt 60  
cagaataaaa atttctaagt tatttttccag tcctttttcc aagaaaatga aacccttatg 120  
ttaaacattc aaagattggc tgatatactc ctatgtacag atcatacagc aagttccaaa 180  
tgattaaatg catgaaatac aaagataaca 210

<210> 29888  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<400> 29888

tctggtgact gggaagcacg ttattctgtt gttttccaga tcggttcctt cgccatgtat 60  
 gtgcataatct gtattatatt tgttgttctg gttgttgttt gtattttgtt ttgtgcagaa 120  
 gataaaaaaaaa agaagaagta gagatgagag tcgtcattgc gaaaagggta ggacggacga 180  
 aatctgtgtc ctatctttgc tttcctctta tctccgatga gaggtaagta aagaggggca 240  
 actgtcatat cctaatttcg tccggggatt attacttgat gacatgcaat aaatgaagtc 300  
 ccgagacgtc tcagaaatca aaaggaagca ggcttgctg tttcgtgaaa ttcggtaatg 360  
 tggcggaagt cgaacatatg tgtttctgca caatccgtaa gtttccgtga cttcttcgta 420  
 aggtaaaaaa ggagtaaata cataatccgt atgtat 456

<210> 29889  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29889

nnnnnccctc gagcctttat gatgcgctga aacacctcgn acccgggatc ctcagagtcg 60  
 acctgcagca tgcaagctnn gaaaattttt gnnnnncttc ntctcgctaa gcccatctac 120  
 tggcttaacg aaccttccgc ttaaccatt ctgcttgctt aacgagcctt ccggttaagcg 180  
 caacactcat gggcctaaac gcgaggggaag actcttgga gaagatgatc tgtacagggt 240  
 cgctaagcgc accacttcat ctactaagc gcaccgcttc agttcatccg ctaagcgaga 300  
 aaggcacgcg ctaagccoga atcactaatc tgcgctaagt agtccataag tgccgctagc 360  
 gcacgagcac ngaacaggtc acctatttta gccctanac agattcagag aaggagtgga 420  
 ctgggatcan nagcttgcat tctatgggtc tagaagagaa aggtccagtc taagagtttg 480  
 agagattgct ggtgan 496

<210> 29890

<211> 454  
 <212> DNA  
 <213> Glycine max

<400> 29890

tatgttgatg ctatttctga cttaaaaata tttagagggtg agtcttccag ttttgcaagt 60  
 taaggaattt ttttagaatt atttaattcg agtaataatt tttttgtttag aatgaagtat 120  
 caatgtctag ttttaagttta atagtgtctag caaatagatt tattttatttt tatcattcac 180  
 aaaatattta attgaagtaa taattgtttt tttagataaa aaattaatat gtgaagttta 240  
 agcgtattaa tttttgtaat taggtttttt actttgaagt ttttttaatt atgtttaatt 300  
 atttacaagc cttacaaata tttacctgat tcccttctag ttttttgaag ttagaatgaa 360  
 atttgaatct atattttaag ttaaagtttag tagatgaagc aaccaaatac agttatttat 420  
 ttaaaaacta ctcttgttat gattaattat tttt 454

<210> 29891  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29891

tcgacccggg atccttaagt caccgcggt gcagcttagc attgatngnn ccatgcttct 60  
 catttgatgc tccccttatc tctaacaatc tccccctttt ggctttgatg atgccaacct 120  
 ttaactatga cattgagtgc attggagagt attgagatgg attggaaaca tgatcttatt 180  
 aacacttaat aaaggattaa ttcacatga ttgatgcaac cctaccccc aagggcattg 240  
 gatagaagac tccaagaaga ttgngccaga caggcaagag aaggccctag ggttcttatg 300  
 agcttttaggg tagaatttgg gcccatgggc taagtatgag cccacttatc tttgtacata 360  
 ttagattang atttcattat ttttgggcct tgtatttang gttctataat 410

<210> 29892  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29892

ctttgatgat tcattacttg tcttttcgag gagcacacaa tttctggata acttgtcttc 60  
 atgatttgtc tttatcttca tagttctatt atttcaatct tgtcactgat ctattgtggt 120  
 taaactcgtc gggtcgcccac agtgggttcc atcacatac tcattgcgca ttaactcggt 180  
 gcccttaaag ggtcttagca ttaacttggt acccttaaag ggtcttatag tcgtgtgatt 240  
 gtacaattca tagctcataa ctcaatgcac acaacatctt aatgcacaca tgtatattgc 300  
 aagtcaatac atactcaatt tatcacatat attcgggtctc aatcacaaatg gaattgtata 360  
 ttctcaaagt agcatgttat cacacctcat gaatcataca cactntacct atgaactatg 420  
 aaatacacac aactactcaa ttgtttcaaa gtcatttacc tcg 463

<210> 29893  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29893

agctntgggg ctgaanaach attttacagc accaaggggc nagnntaggc tctcttctct 60  
 cttgtctcta ttctctctcc tctcctctct ctctctttgt cgttatagtt ttagagtgtc 120  
 actctctttt ccggttttagt cacttttcgt tgtagcaata aaatttcggt cttcaatcta 180  
 taatttcggt ctctattgat taatggaagg ctaagtctcc aacggtgttt tctcttgagg 240  
 atcaagcaca attctctctg aggttctatt attactatta aattctgac cagttttcct 300  
 cttcactaat tactctgtat ttgttgctat taattcatgc atgcttagtg cttgattaat 360  
 tgtctctgtg cttcaattac gttcatgctt aatgatcatt tatgattaat tg 412

<210> 29894  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<400> 29894

tatcggcctg acaaacccaa acagcgatct aaagcctcag attgataagt aactgttact 60  
 actaaagaca taaatcttaa tgttactact aaagccatag atcattgatg tcatttcttt 120  
 ctatgatcaa taatagttca ctcacataaa aaatttcaga gggcaatcca accagacaag 180  
 gagccatgca aaacaaggta aaagtgtcgt gcatttcagt tgtgaaaaga acagaagcag 240

cataacatag aaagaaggcc agcaacacca caacaggacc tcacaatcag actagacaga 300  
 caatgggatc tctttgatct agagatgcc aagaagaca ggttccagca atacaagtgt 360  
 tatcaatggc atatcacgca aaatgacaaa ccaataaccc agtatatcat ataacagata 420  
 gtgttgcaag catatagcag aagtcttatt cacata 456

<210> 29895  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29895

agctngaaac ttgatgggaa ttttcaaag tnnngaagag aaattgctga actagaggaa 60  
 caactcaagg ttttgaagtg tgtgaacttg gaggaagctg atcatgagaa taaaagaaag 120  
 atagaaatag aagagataga agaaaaattg gaggacatga tttttgatat gtccgtaaaa 180  
 gatgatgaaa atcaagcttt gaagaagaag gtacaagaag ctaaaatcga gctagaagat 240  
 gctaggcaac aaattattaa ggtaaagtgt ctgttctgag aaaatcctta ttctaactct 300  
 tataactaagg agacactnta gttcataatt ntattaaacc ttttactnta atttttcaac 360  
 ttcacaaaaa gtaattcatt ttttactttt actttgtatc ataaagggtta ttttaagtga 420  
 taatat 426

<210> 29896  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29896

ctaagcttcg agagaaanac ctaccgtgag agcaagaatg agagtgcac ctataccaac 60  
 agtgagagtg tgaccgatag tgatagtgt gatactgggt tcagtgccgc gagagtgata 120  
 ccgatagcga gagtgcact aaaacctaga cgatcatgag cgagactgac gacaatgggt 180  
 tcagcgtcac aagagtgaga gtgagagtga aagtgacaaa gggtttgagg ttgccagaag 240  
 cgtgagggag atgagtgaat tgccaaaagc acgaataata ttataaatag gacaatacaa 300  
 tgtcagtttt tcttttaaaa aatgatatta gcatgagttg gttaatattg gtttttgtaa 360

aaatcgatgt taaagaagtc acgagaacat cgatctttga acaactgatg ttaacaaact 420  
aacgttatc 429

<210> 29897  
<211> 491  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29897

aaaaactgtg agctctgtga accgtttgaa tacaggcacc cgggaccta ccagtgcact 60  
gcagcatgcn ctgaggcatg ttagcgnccc actcgctcgc ccaggcgagc tcagctgtcc 120  
cagccgagca aggttggttc ctccagaagc aacagccttc tggacgaatg atccggaacg 180  
cccaggcggc cacattgcta tatgtacccc cttattacta aatgcacccc tcttagtttt 240  
ttgggtaatt cttttccgta acgttacgaa actctacgaa tatcgagcga tgcttatctc 300  
cttccgcaag ttacgaatcc ttacggatta tgtatttact ctntattagt attcgaagac 360  
gttacggana ctcacgaatt gcgcaaaaca cctcttttcg atttctgcac attacggaat 420  
tcacggatcg cgcaagcctg catactttat gattctgaga cgtctcgtga ctacatttat 480  
tgtgcaacaa t 491

<210> 29898  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29898

caacatgcga acatctcaag ctatcacagc caagcaaaac agagcaaagc cagaaaactc 60  
tgctcaacac atcaaccaa atcacagggtt ttctcactta aagaccacag taaaaattcc 120  
ttcgaatcaa ttcgtaacc gttggatcga ctccaaaatt ttactggaag tctatagtgc 180  
ataagcctac attttgaccg ttgggatcta ctagcagaca ttgagaactc attctgcact 240  
agactttcca cagccaacca cacacaagca ttnttctgca cttgtgcaaa attctgctgc 300  
acaatttcac agcatatatt ctgcataagt gcagatttcg aatatcacac ttgctctcat 360  
ccaatcttgc ccaaatcaat tctacaagt cccatatcat gtatcaatca tgtctaaacc 420



aaattcaag

429

<210> 29899  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29899

ntgcatgtct agggtttcta gagagagaaa ggtgggagtt ctagagagtt ttgagagatt 60  
ttgttgtgtg aagatctgca gagaccagag cttgaaacaa gagccggttt gagagcttga 120  
gatgagtttg tgagtgattg cgagatccta gaggtgaagg agacatcttc accacttgta 180  
tatgtgcaat ctttcatctt gttcttctct ttgttcttaa gaaggctttc tggatatggaa 240  
agctaaatcc tttgtggatc ttccctggag gtacctgatg taaatatatt tctatctatc 300  
taatgatgta ttgtgtgttc tctgtgctat ctgcttttca ttccagtatg cctttacctt 360  
gatcacgtag atgcatgctn tgtaggggtc attcaatact ggaaactggg ctgacgctaa 420  
agtccttgat agtgcacggc tg 442

<210> 29900  
<211> 402  
<212> DNA  
<213> Glycine max

<400> 29900

ttctgtgtct tctctaaata acgatctact cttgtagacc ctttctattg gatctgtgtt 60  
aacttctgat gtgtgtttga attgtcctgt ggagatttct gggagaatat tcttaataga 120  
tctgatcggg ctttcttaga gtcacattga cgttattctt ggtatggact ggttatcttg 180  
caaccatgtc ttgttgaacc gtttagatat aagagtgggtg tttgacgatt ctggagttag 240  
taaagatatg atgtttatct ctaccaatct gtgacatcgt ttaccgaaga tgcttaagta 300  
tacatgatct tgtctagcct ggaaaagata caaagggttc tatgttgacc ctctgatgt 360  
caacactatc tgaagtgttc ttgaggaata ttcactctcc ac 402

<210> 29901  
<211> 363  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29901

cnggcacann aggaggngaa tgtcaaaggn caaaggcacc gcgaaccgac naccaaaaca 60  
ttggaagacg aaacagcaca gagaaaagaa ggggaacgaa ggaaacacaa ntcgaaaaca 120  
gccacaaaac aacggtgcta ctggaaataa tatcccactc tattgtccaa cggaacgccc 180  
agagggcatc gttgcttaaa attgacgac aagcacaata atagttgacg ttcgatcagt 240  
aatattatat tctgagaact tgtgatgtta acaattactc tggatgatg tagtcacaat 300  
gaagcaaagg ccgataacca catgacttaa ttaacgacctg ctatgatagc aagataccga 360  
gtc 363

<210> 29902

<211> 444

<212> DNA

<213> Glycine max

<400> 29902

tcggcagcta aagtattact caaaagataa agatccaaaa tcaaatcaat cttataaata 60  
aaataaagaa tcaaaattaa aaataaaata aaaaatcaaa agtataattt atcctaaatt 120  
atattgtaga tttcgaataa atatttttaa ttttaataata ataacgataa aagaaggtaa 180  
actaaaaaat aatttaagat gattagaaga tcaatttttt tactaattgt gagggtagtc 240  
taataccttg attttcaata tttcacgttt aacttccttg atcaccgtta taattgaaat 300  
tgtcatttaa aacataaaga ttaattaaat gaactttatg tcaatctcta agcaagtttc 360  
aataatttat tagattgaaa cttagaccgt actgtgaatc aataaatgct ttcacaatat 420  
gtgctgtgag ccgacaatca aata 444

<210> 29903

<211> 427

<212> DNA

<213> Glycine max

<400> 29903

tgaacgtaaa ctgctcgaga aaatacccaa cttttaagtg aaatgatgga agaaagagaa 60  
agatattggg aaaaaatgga aaaagagagg agaagattga gaaagagaat gagaaagatg 120

aaagagtggg acgacctcga tggaacgtga ttggcgaaga agagaagtgg tggctctggc 180  
 ggtgcagcga gcaagaggtg aaacagtgcc gttcgggggtg ggattagtat agaaatgagg 240  
 aagtgtgtat agagggggttc tagaacggtc gaggacatgg atacggtcct aagagcaata 300  
 acaccactct caaatgcgga agcataatat acaggggtta tgaaaatatc ataaacaccc 360  
 ctgtttatac cgaatgtcaa ttttatatgt tgtccaattt ataactgaac cgctattat 420  
 tgcttat 427

<210> 29904  
 <211> 222  
 <212> DNA  
 <213> Glycine max

<400> 29904

gatggtgcaa catatttctt tggcctaata ggaactccaa tatttttaca gcttctaag 60  
 ttatgattgg tttggccaca cctccacat gtaaactcag ccaatttcct ctttagctta 120  
 tgtcctgtga cattgtctc atctacagat ctcttctat gattctttgg ccttactcta 180  
 tggacctttt tatgtggtgg aacagggtgt gtatactgtg tc 222

<210> 29905  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29905

tgttctanat atacattgat gtttgtatgg gaggatgtta catgccatta ttgctttaag 60  
 agtaatgtcc cactaaaact aactttccaa atgtttgcct tcgcaggaat ggcaccgagg 120  
 aagcttgctt catagaggtc caggaaagac aaggcggccg aaggaactag ttccgccccg 180  
 gagtacgaca gtcaccgctt taggagcggt gtacaccagc agcgtttcga agccatcaag 240  
 ggatggtcgt ttctccgaga gcgacgcgtc cagctcangg aggacgagta tactgatttc 300  
 caggaggaaa tagggcgccg gcggtgggca ccaactggta ctcccatggc caagtttgat 360  
 ccagacatag tccttgagtt ntacgccaat gcttggccaa cagaggaagg cgtgcgtgac 420  
 atgagatcct cggttagggg t 441

<210> 29906  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29906

agcttatcga tactgaancn canncnnnna acacattgtc tttttcgtac taaaccaaaa 60  
 cccaattcgc taacttttta ccaaaatatt aatttattaa ttaggagggg catacaagga 120  
 aatatatttt caaacctat ttaggaataa atgtaaataa aatacaaaat caaatctatt 180  
 gtccgaaggg agcgccgttg ggttttctat cctanactct accattttcc cttttcataa 240  
 ttctcactct ccgcaatatt attttccttc aaagtcattg gtaagttaaa gacatttttt 300  
 ttttataatt ctttgcccat aaaaaanaaa taattccatt tatcgaanag tgaatattca 360  
 atgtaaacca caaccttaat tgaacattat attcaagatc t 401

<210> 29907  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29907

nggttaacaa tatcctttat ataataaaa tggttaattaa tatcttanaa atactagtta 60  
 atgaacttaa agttgaaata cggaagataa acaattacaa tggtcatatt ttttatgatt 120  
 tatgcattta atattcttat tcttttaatt ccttaactaa tatctagaag cgctaattaa 180  
 caagaaccat ataagtaaac caatgagtaa ctaacaatcc cggtataaaa aaaaggtta 240  
 tcatcatgtc ttttttggac taatcatatc atcctatgat ttcattcgac aaataataaa 300  
 gttaaaaatg aattgaaatt aaaatacata ggaccgaaaa ggagttatga gttaatatat 360  
 ttaattaaga cacatatctg ttaacaaaat tgatacagca tgaatgaata atgcgtctca 420  
 gcgaacaaaa tcttgatggt t 441

<210> 29908  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<223>     unsure at all n locations  
 <400>     29908

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agctntgagc ctaaactctg actctccata ttccttngac ccaggtgaga atgccaatcc   60
ttaccctcgg aagcaaaaag aatggaggga anattccaat caaagaanaa gagaaggaaa  120
atttccaatg aaagcaaaaa agaaatgaag gaaaattccc caatcaaaga gtgggagaaa  180
gcaaaaaaaa ggaaaagaag gaaaattccc caatcaaaga gtgggagaaa gcanaaagaa  240
nagaaaggaa aattcccaat caaagaatgg gagaaagtaa aaagggagaa gaagaagaaa  300
gaaagctctg a                                     311
  
```

<210>     29909  
 <211>     456  
 <212>     DNA  
 <213>     Glycine max

<400>     29909

```

tctagccaaa gaaagaggga gagaaagaga gaggggggag cacgagattg aaggaagaaa   60
aaggagagaga agttgaactt tgagttgtgt ctcacaagac tctcattcat caaagttaca  120
acaagtgtta cacatgcttc tatttataga ctaagtagct tccttgagaa gctttcttaa  180
gaaaacttcc ttgagaagct tctttgagaa aacttccttg agaagataga gcttagctac  240
acacccatct aaaaactaag ctcacctcct tgagaagctt ccttgagaag caagagctta  300
gctacacaca cccatctaaa aactaagctc acctccttga caaaatacat gaaaaaacia  360
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atactactag aatggtcaaa atacaaggcc caaaag                                     456
  
```

<210>     29910  
 <211>     417  
 <212>     DNA  
 <213>     Glycine max

<223>     unsure at all n locations  
 <400>     29910

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agctnanatt atcacancan cgttttgaat aatganaagn nactgtgtga gttgatttct   60
tttgcggtat ccaatataat aaaaatatgt gattatatta caaaatcaat tcgaatccaa  120
aaattggtgt taatatTTTT atttgaaccc gtgcgttgca tgggttggtg gactagtatt  180
  
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tgtaacgact gggatcatat atagtttata gttaagtagg cacacagtga anatctttat 240  
 aacgaagccg ctgtaaacgt tacaagcgga gagccgtatc aattcgcttt tcatatgtaa 300  
 tgtgtnaagc aggcattgca atattactga tttctttgca gctagagttt aatttatatt 360  
 atgtttatcct atgcattaat aatatgatac gatgaaaaaa tattttctta ttaatat 417

<210> 29911  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<400> 29911

gctaataatt attgctcatt ctttacagat attgaaaata acatctctaa gattcttgag 60  
 cttattaaga acaaaagcca tagcaaagaa gatgatgaga accacaaaca ttctacaagt 120  
 gggacagaac ttgttgggtt aatagaggat ttatacaaga agcaacaatc actttatgcc 180  
 atatatgatt gtgtcattga agagtttgag aaagtagttt ctcgcaaaag aatcaagaag 240  
 gttgcaatgt cttcctctga ctcggactct gaatactttt ccccagagga agtagatggc 300  
 attaagagaa agtcagataa agaattattac agtgtatctt atcttggcac ccttaagcaa 360  
 gaatctgata gaggtgattg tacagatgag gttcctaaga ttgaagcaac aaagtttgag 420  
 gaacaattaa cttcactagc gaaagagggt gagagt 456

<210> 29912  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29912

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 ctttctacac ggatgtccga ttgggcaacg taacatatcg actcgctcga aactgaatac 180  
 caaagctgag agcaaattca aacaacaatg actttttacct cggatatccc attgagtccc 240  
 ataatatatc gagacgttcg aaattgaata gagaagctgt gagacaattc taacgacaat 300  
 aactttttac tcggatgttc gattgagtcc cgtaatatat cgagacgttc gaaatttata 360  
 acggaagctc gtagcaaatt caaacgacaa taactttgaa cttgga 406

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[illegible][illegible][illegible]

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29915  
  
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 aaaaatattg aagatcaaga gtgatttatc ctaattaaat tatttccatt tctaattatt 120  
 tttttagaag ggcacagggg aatccgagat agctcttaat acaacagtgc aaagctgcta 180  
 cctatatgat atatatgtag ttaaaatctg accctgceca tgtacgttaa gtaataagtg 240  
 ggtcagacct aaatctgtgc ctgaagaggc atatgatttc aagagttgga cctatagtga 300  
 atttttaaaa aattcccaca ctagttatct gacactttca tttatgatga ggagaatatg 360  
 aagtaatttc tatgaagggtg cttcacttca tgagtntaag aagtgcacat tatcaatgag 420  
 tagttgaatt cgatgatatt ggatataatt ttcttaaata aata 464

<210> 29916  
 <211> 53  
 <212> DNA  
 <213> Glycine max  
  
 <400> 29916  
  
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<210> 29917  
 <211> 497  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29917  
  
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 atccttagag tcgacctgag gcatgttagc naacncttca taattcgcaa cacaagaacc 120  
 tgggaagctg aaaatggccc tctcttaaaaa cataaaaccaa gggtagaagg tcccataaga 180  
 atatctaaaa tgcctttaat aaaagaataa tgaacctccc ttggttcttt ttggaacctt 240  
 gcacataagc caacaccgaa tattaaatca nggttggatg ttgaaaggat agcagtgatc 300  
 caatcattgc tttgtattgg gtcccgctcct cctttttaga ttctttgtcc aatccaaggt 360  
 atngtgggtg atgcatangt gtcttcatct ctttttcatt ggccatgtng aaacttctta 420



gaagtttttc acatacttgg gttggtgaaa tgtaatncat tgctngttgc tatntttgca 480  
atccaggaaa acattan 497

<210> 29918  
<211> 449  
<212> DNA  
<213> Glycine max

<400> 29918

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ggaagttttc tcaagaaagc ttctcaagga agctacctag tctataatgt gtaacacttg 180  
ttgtaactct gatgaatgaa agtcttatga gacacacttc aaagttctac ttctccccct 240  
cttttattct ttcaatttcg tgctccccc tctctctttc tctacctctt tcttttctc 300  
cattgaagca tcctccaag cttcttatcc aaggctcctc ttggtggtga agctccttct 360  
tccatggctt attccctagt ggatggcgcc tgcttctctc tcttctcctt tgcttccgc 420  
tgcactaca tggtgaaaaa tcaccattg 449

<210> 29919  
<211> 213  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29919

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agcttggatt tgttttggga ataagtgtgg ggggtttttg ttctattgga caacttgttt 120  
tggtggctat gcttcatgat gtattttggg ccatacttga tgtacattgt atattgggta 180  
aatgttggac atgctgaatg aaatgttggt tct 213

<210> 29920  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29920

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 agtgattgtg aggtcctaga ggtggaggag acatccccac tacttgtatt tctgcaatct 180  
 ttcatcttta tcttctgttt attgtaaagg aagtttccct gttatggaaa gctaaatcct 240  
 ctgttggatc ttccttgtag gtacttgatg taaatatctt tttatatggt taatgatggt 300  
 ntgtgtgttc attgtgctat cagaactgca ttctacgatg cttttagctt gatcacgtag 360  
 atgcatgtgt tntaaggatc attcaacagt gggaactggt ctgattctta gaacttgata 420  
 ggacagggct agtttgttgt at 442

<210> 29921  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 29921  
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 aaaatacctt ccaccaccta tagaagatac tcttgcaggc ccccgatagt caagatgaat 120  
 gtaatcaaga gtctctttga ggggtgtgaat tgctttatga tattaaatcc tatgttgcta 180  
 gccatataca cagtgtctgac ataatttcag ttcatccaat ctttgatttc ccaacagttg 240  
 ctgtttttga agtatcatca taccttcttc agtcatatgt cctagcctca tgtaccacaa 300  
 ttgagtttag tcaggtatgc ccttattgga tcttgatgga acagttacta taccatcatc 360  
 aatacatggt gtaccttgaa gtatatagag attacccttc tttataccct tcatcacc 418

<210> 29922  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29922

ttagcttcaa gactaatggc cttagcaaac ttcttattcc caaaaggaaa ttcaatanat 60  
 aggccctcta tttttaatgg agagggttac cactactgga aaaccgaat gcaaattttc 120  
 attaaggcaa tagacttaaa catttgggaa tccatagaag ttagacctta tgtaccacc 180

atggtggcta gaaatgcaac aatagagaaa cctagagaat agtcgactga agatgaaaga 240  
agattagtgc agtacaattt aaaggctaaa aacatcatta cttctgccct aagaatggat 300  
gaatatnta nggtttcaaa ttgtangagt gctaaggata tgtgggacac tctacaagtt 360  
acacatgaag gaacaactga tgttaaacga tctangatan atactttaac tcatgagtat 420

<210> 29923  
<211> 440  
<212> DNA  
<213> Glycine max

<400> 29923

tctgggacgc ttactctgga tacaactaga tcatgatgct cgctccagat gaggagaaaa 60  
cgacattcgt cactaaaagt accaattttt gttacaaggt catgcccttc ggccttaaaa 120  
atgtaggcgc tacataccaa cgattgatgg accaagtctt taaacaatag attggacgaa 180  
acatcaaggt atatttgatg gacatggttg tcaagtctca aagcatagtc caacaagtgg 240  
tagacctgga agaagtcttt ggggaactcc gtaaatatga catgtacctc aaccctaaaa 300  
aatgtacttt taagggtggc ggaggcaagt ttctcggctt catgatcact caccagggga 360  
ttgaagccaa cctcgacaaa tgcactacca tactagagat gtgtttcccg accaacgtcc 420  
aagaagtcca taaactgaac 440

<210> 29924  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 29924

attgaattat ttaacatgcc caaaataagt tctctaattcc ttatgaatct ttataattgc 60  
atattacata atggagaccg gataaactat atatgaattt gcaatttatt atgtctattt 120  
cttcttacta atatagcaat atacctaaat ttcttcttga aaaaattagt gcatgacaca 180  
ttaatctcca atactacaga aatattattg tatttagttc ttaatatcat aaattgcagt 240  
catataaaac atggtacact ttacgtttca aaatgactaa tataaccaat atttgattgt 300  
ttttaagat taacgtgaga gtttatatgt ttaaggatta acgttttata acaatagata 360  
tggtctgctg gcggttactc tatgtcttaa c 391

<210> 29925  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29925

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 taagcacctt ttntgacca agagccatca tgctctttgc ggtaatcaaa agaagcaatc 120  
 acagcagcac caattaaaaa agatctcttg attggaacat aaggttcaga atcaagagga 180  
 atttgaaaat ggcaaaaaaa agagtgacaa ggtgtggata tggcaatgga gcatttaatc 240  
 gcaatgcctt atgcatgca tatctgacaa ggtgtgcccc gtcaagttga cgcccggtat 300  
 gaaaggccca catgataaca agatcttctt cagaaacctg ggcaagaatg gaagatcgtg 360  
 gaagcaaaat ccgcacaatc agataat 387

<210> 29926  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<400> 29926

tagccaaatc atactttaca agttgcatcc ctattagttg cgaatcaaaa ttattgatcc 60  
 aagtaatgat ctttgagttg tttacttctt aggtttccaa ctcatattata gatttcccat 120  
 tgtgttcatt tggaggctta gtaagagttc catcaacata gccctacttt ctattgcctt 180  
 tcaaaaaaaaa atttcattac atctccaata agaataacag agcaaaatag attaccggaa 240  
 ccatcgtgtc gaaacagaaa caagtccgca acaaaacaga gaaggttgcg atataataga 300  
 tcttcgtgac ggagttgggg tcacgaatgc agagagagag gcagaactgg gtcaaaaaac 360  
 aaatttgata ccatgttaac attgagaacg ttacagttat tccgaattag gaaccaagct 420  
 ctttgatagc atgttaacat tg 442

<210> 29927  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 29927

ttcaatctca gcttgttaggt ttgtttatat tatgttgtgg taacaaagtt tctggcacac 60  
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ttggtctttt ttttgtttat ttatttttct atttaaattt ttttgtttca ttatatacta 180  
ttggtgggtca agatttctca gaacaattgc ttaactaaaa attttgggtgc actcttgaac 240  
tctagccaat atacagaacc ttttaatagg ttaaagttac cagttagtgt gggattcaag 300  
tttatgattg ctntaagcac tagtattctt ttaggtctct ctttaagttgg agaacgtaga 360  
tagagagaaa ttgcttaaca gaattacaat taagagaaag gaaatntgaa gtgggaatga 420  
gagaatctgg gttatctcta tatatgtaat aatctgtcca tgcanggat 469

<210> 29928

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29928

atcttccaca gnnagctcca atactttacc tgccatgtng cagatccttc ataaaagcca 60  
ggatcatcatc atgcagaacc tatagaactc angccctgca cctatcatga gcatggaaaa 120  
gttcattagc caagtggaat gaccaggagt ccaaccttct cctttgggaa ggggtgaggc 180  
ctnccagacc caagagcctg tgcccganga tgaagacgag tctcttcccc ctgagccttt 240  
catttatgag ccagacacaa agattgctca ngaggaggca ccatcaccag agcttattcc 300  
tcagtcatca ccatcaccag cttagtcct tgaaaccag agccatctgc accagaccg 360  
atacctgatc agcctcttgc tcangaccct ctagctgcac taatg 405

<210> 29929

<211> 424

<212> DNA

<213> Glycine max

<400> 29929

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agattggatg agaggaagtg tgattttcga aatctgcact tatgcagaat ttttgctttg 120  
aaattgtgca gctgaatttt gcacaagtgc agaaaaatgc ttgtgtgtgg ttgactgtgg 180

aaagtctagt gcataatgag ttctggatgt tcgctagtag atcccaacgg tccaaatgta 240  
 ggcttatgca ctatagactt ccagtaaaat tgtggagtcg atccaacggt taacgaattg 300  
 gatcgaatga attgttactg tggctctttac gtgagacaag ctgtgattct ggttgatgtg 360  
 ttaagcagag ttatctgcct ttgctctggt ctgcttggct gtgatagcta gagctgtttg 420  
 aatg 424

<210> 29930  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29930

agcttaaachn ctaaaacaaa ggtgtagaat atgganaagt aagtgagtga tcaactagga 60  
 naaaatgtgt gtatgtgttt cttgatttca aggttgtcat catcaaaaan gtggagattg 120  
 tagaagcaag cttcacgatg ttgaatcaag attgattcaa gttgttntga tgataacaaa 180  
 gatgatgaca aanagcccat gagaatgatt tcaagattga gtcaagaaca attcaagaat 240  
 caagagacat ttgatttcaa gattcaagag aagatgaatt caagattcaa gagaagaaat 300  
 caagaagact tcacaaggga agtattgaaa agatgtttta aaaaacaaac atagcacaat 360  
 tttgtttttc aaaagaagtt ttcaccacat tttctaagtt accagagttt ttactctctg 420  
 g 421

<210> 29931  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29931

tgccgcccag ctgcgccagg cgagcgagggt cacttctctt agatgcaaca gccttctgga 60  
 ggaatcttct ggagggccca agtggggcctg gttgctattt acaccccccc tatttactaa 120  
 atgcgcccc ctttctattt tgtaattctt tttccgtaac gttacgaaac tttacgaatt 180  
 tcgtaacgat acttattttt cttccgcaag gttacggatc cttacggatt atgtatttac 240  
 tcttttttag ctttcgaaga agttacggaa acttacggat tgcgcaaaaa cacctctttt 300

cgacttccgc cacattacgg attttcacgg atcgcgcaac cctgcttctt ttagatttct 360  
gagacctctc gggacttcat ttattgtgca acataggacg ccaaatatct canagcggct 420  
aaccaaaggg tgcattgcat caagtaataa tcccc 455

<210> 29932  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29932

agcttgagga gtangcttca atgtatgana aganagaggg agagaaagag agagggggga 60  
gcacgaaatt gacagaagaa aaagggagag aagttaaact ttgagttgtg tctcacaaga 120  
ctctcattca tcanagttac aacaagtgtt acacatgctt ctatttatag attagataac 180  
ttccttgaga tgctttcttg agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240  
gagaagctag agcttagcta cacacacccc tctaataact aagctcacct ccttgagaag 300  
cttccttgag aagattccta aagaagctag agcttagcta cacacaccn ctataatagc 360  
taagctcaca tccttgagat gagaagctag aacttagcta cacaccnct ataata 416

<210> 29933  
<211> 460  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29933

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tatcaatttc actatcaaact ctaccagaca ttttcaatgc aggggtcaatg ctatttggtc 120  
gatttgtagg cagtggcagt gaaattaacc tcaactatat accaaaggat atccacctca 180  
tatgccgctt ggggctataa tctacacata aaggcacaac taaaaatcta ttgaggacca 240  
cgtagagaaa ctaaagccac caataagtgt aaaatgctca gatcaaagat agcccaccaa 300  
taaaaaatgag atttttatta tatatgtatg caaaattatg aaaggaaagg tatatttggt 360  
tgataatcct agctgtcaag gaattacttt ntataaccat tagattaaaa aaataagagg 420  
tgatataagg agtaacaaat ttgtctagat ataaaaatat 460

<210> 29934  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29934

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 tgtcctccat gtttatcttt acgttgctta accttttctt gatactatgt ttcttgacag 120  
 tgcaagcgac actataccta gggatgaagt tgatcttata aaggatgtnn tatcgtatag 180  
 aatgagagtg agagaaacat gagagacaga agcgggcttg ttcgttttgt ccagattcgt 240  
 tacttaggcc acccacacgt gaacaagaat gatccgtgaa ttcaccctag cgtgacacgt 300  
 gcttgcatat cagccacgat tagctcttat taactctccc caattctagc ttgaacttct 360  
 agcataacca tcgactagta aaatcaagct acttaatcct gccttgtgta cctgcact 418

<210> 29935  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<400> 29935

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 ttacctggc tattaaggca aggatgattg cggaagttac cattaacagc ctttagtagt 120  
 tctacaagat ggtagggta ctggcaagaa aatgctcgtg gtactatata tctgtgcaat 180  
 gtgattgcct gaacatggct ccgtggcaat ccaagcatgt caagtagagt gtcacctcca 240  
 cacatgatgg atggtgcccc aaaggttatg acaggaagca gagaggagaa tagcgcttcc 300  
 ttccttatcg gtagcataag atttacaagt aatgccaaag tcccccaag ggaatgacca 360  
 gtgaaacgga tagttgcacg tgaaccatga gatttatgtg agcacgaatt tctggcaaca 420  
 tctgttgata tgtccctttt gcagcctcgt atatac 456

<210> 29936  
 <211> 313  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 29936

acaaccggcc agaccctgga gaacaatcta gntcacactc caataataag ggcacctgac 60  
tggagtaaag agtttgagct catgtacaac gctagtgact atgcagtagg ggtagttctt 120  
ggacaatgga gagagaatgc attccatgcc atttttatgc tagcaagatc ctgaatgatg 180  
cacaactaaa ttatgcaact actaagaagg agatgttggc cattgtgtat gccttataga 240  
agatccgagc gcacttaatg ggctccagag tcattatctc tactgatcat gcatcaatca 300  
tatacctttt cac 313

<210> 29937  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 29937  
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ccttcagtct tcctgctaa ccaaattggt agaaatattt tgagtttaga aaacaaacat 120  
ctatagttgg ttttccatat caccttgtag acaggtccaa agccaccttc tccaatttg 180  
ttactctcag cgaagtctc agtggctctt tctatgatgg ggaaatcaaa tgtggacaaa 240  
tcaatgcctt cttttctcag ttttcgttcg aaatgggtcc tataaattat tcttgctacc 300  
cctgataggt ttgaagataa caatagagaa gcactatgac actcacaatg tgcacgtatg 360  
atacataaac ctactatcat atattag 387

<210> 29938  
<211> 312  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29938

tatagaaaaa tttttccaaa tagacttata caactaataa ataatagtta tgaattaaat 60  
tgattttatt aaccatgtat tggcaataca aattttttta cattgtcaat cagctaaaaa 120  
aatatcattt gtataatttt ttttaaatta ttatatatga taaattgtga ttgaataatg 180  
aaataaaatt aattaataac attattatat atatatacta ttttttatta ttaattntat 240

attactggaa atagaatttg gtaattaatt tatgaatttt tattcttaaa gtgatgattt 300  
aatgatagaa at 312

<210> 29939  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29939

tgtaattatg taatatattg tgtaaaagaa gtattgtaaa ttatggatat tatgagttgt 60  
ataattatat gacaattatc tactgtatct gcagttctaa ttataaataa gagtctccac 120  
tgtgtagtca agacacagat tcattcacat gaactctcat tttcttctc ctcacaaggg 180  
attacacaaa agattaaaag gcagaaagtt tgcttacctc caaaagttgg agttcttcag 240  
atgcttgtct caatgaatct atcacaatct cataattntc aaagactgaa aaagaaattc 300  
aaatcagtca agtaagattc agttaaagcc ccaacaaggg gagagaaaaa ggatcaacac 360  
cctcagaaaa ctattgatga aaatgtggng aaactaattt cccctattt gattattatc 420  
ttttacagaa tcagaaattt ggcta 445

<210> 29940  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29940

tagcttgnan gattatggng taccatcac atgtggtact aggtggcggg cgggcgatgg 60  
tgcacaacaa gttttccaca tccacaatgc gcgcataaac ccaccatccc ctgttgccca 120  
cctccatcta agctcacgta ctcccatgta gcccatatcc tcatttctct caacaccggg 180  
tcccatcaa tcctctcaag ctccacacac atccaagcan aacaacattc aaactgcaca 240  
agctatcaca gccaagcaaa acagagcata tgcagaaaac tntgcaaaa caccaaccaa 300  
atcacagctt ttctcactta aagaccccag taacaattcc ttcgttctgg ttcattaacc 360  
gttgatcga ctcgaaaatt tactggaagt ctctaatact taagcctac 409

<210> 29941

<211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29941

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 gtcgtcctgc ttggacgaat gagaaaactg gggcaaatga agaggggtgag gatgaaggag 120  
 aagcccgtgc tgtgactgcc attcctatac agccaagttt cccaccaacc caacaatggt 180  
 attactcagc caataacaaa ctttctcctt acccaccgcc cagttatcca caaaggccat 240  
 ccctaaaatc aaccacaaag actacctact gcacttccaa tgacaaacac caccttttagc 300  
 acaaacaaaa aacatcaacc aagaaatgaa ttntgcagcg agaaagcctg tagaattcac 360  
 cccaattccg gtgtcctatg ctgacttgct cccttatcta cttgataatt caatggtagc 420  
 cataacccca accaaggttc gtcaacc 447

<210> 29942  
 <211> 192  
 <212> DNA  
 <213> Glycine max

<400> 29942

ttacgcatct gtgcggtatt tcacaccgca tatggtgcac tctcagtaca atctgctctg 60  
 atgccgcata gttaagccag ccccgacacc cgccaacacc cgctgacgag aacccttgc 120  
 ggtcgcacgc tatattacta tcaataatag gtgctatacc gagtacttat cgagtaacta 180  
 tgactaatat ag 192

<210> 29943  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29943

tcgcnnncnc cctttgtttc tcaactnnaan cntttttttt tattgttgaa taataatagg 60  
 gttgtcaatg acatacatgg gtcttctact aagaagaaca aagagtagca agagaagcta 120  
 ccccttggtg tgctcaaggc agtggaatt atttactcta aagccaactc cgtggtaact 180

ttccttcttc gtttcttgct tacttgcttg tgtactcaac tattttatgt tatgggttgc 240  
 aaaacaaaaa aggaaaataa aaatgacttg aggttatattt atttcttgag gaggttgaaa 300  
 tagaaatatac acgagcatta aaagaaactt ttttagtggt ttgataaata ataatttttt 360  
 ttgggtaggc tgaatacatg tttcaatatc atcttat 397

<210> 29944  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 29944

tcaagaataa tggcctcagc aaacttctta ttcccataag gaaactctat aaataggcct 60  
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 gcaatagatt taaacatttg ggaagccata gaagttggac cttatgtacc caccatgggtg 180  
 gctggttaata caataataga gaaacctata gaagagtggg ttggaagatga aagaagatta 240  
 gtgcagtaca atttaaaggc taaaaacatt attacttctg cccttggaat ggatgaatat 300  
 tttagggttt caaattgtaa gagtgataag gatatgtggg acactctaca agttacacat 360  
 gagggaaaca ctgatgttca aagatctagg ataaatactc ttactcatga gtatgaa 417

<210> 29945  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<400> 29945

ccttctgtgc tcttgggtgg atgtgttatg gctatgcttt cacactttta attataacat 60  
 tacatagcag gagtgactct gatgggtggc agtattctgt catggcatac atgatcttaa 120  
 gcatgcaatg ccgcaacacc ttgtattatc tattactgga tgcaccatct accaggggca 180  
 cactaggcag tgcatagtgg agcatgagtg aatatccaac tatcgcggga cgctcattga 240  
 tattcgagtg catttctagt gtatcatctg ctatatctat ctttggatta a 291

<210> 29946  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 29946

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cgcttcatca tctcactta taatcgcaac ctcaaagagc tgatgactca ggtcgtgaag 120  
acacctaaac aacaaatgaa ctttgagcgt cttatgggat ataattatag tatctagaat 180  
tggtccgaca gcacgaacat ggttcagat gcattatctc acattttgga gaactcgtca 240  
tcaaccttgc tacttctgtc agtaccatgt ttcacattct tggaagagct taagagccgg 300  
ttggcccagag attcagtctt tcagcaactc cgacaagaca ttagcgataa cccgaaagat 360  
tatccagagt atgtcatcac tcagaactta atcct 395

<210> 29947

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29947

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aaattagcaa agtaggctta cttgttaaag agacctatac ttaagaaact tgtacgcact 120  
gcaagtctgc aacagttatt tggcccacaa gcatgtatct attcccttgt gcaaaatctg 180  
atTTTTgtag gctgacccaa atagattagt ccaaaatgaa atcttctgtt tttagcttta 240  
atTTTTtgat taaaattact tttttttatg taggtaaata agttagttcg tgtaatttta 300  
tagactaaac tcgttcttaa agcagatcaa tccgcataaa cctacttggg ctatgggttg 360  
taaggactta tccacaatat ctattaattn taggaaaact atcaacgtac accctatntt 420  
tggaagaaat tataatgatg 439

<210> 29948

<211> 362

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29948

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ttccattca tcattgaata cctgaaggca gggaaagact acctagagg gcagaatgtc 120

aaggcagatc aaagtcaaga gggaagggtca gagaaatttc aagtgcgta ctttgctgaa 180  
 tgtgacaaga aggtcactta gcatcagtgc atgcaccaag aagaccagtc acacacacac 240  
 aacgcgatga tgatgatcgc aatgcacact gatgactgag atgcattatt gcagttgata 300  
 gtctgtgatc atgatcatga ctcaggctcg tcacactctc tctaagatat gctactaatt 360  
 tt 362

<210> 29949  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<400> 29949

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 ttccttgctc cgagcctctt gagagcctct tcacagcaat ttcttgctca cttactaatc 120  
 ttccctacaa aataaataaa taaattggaa taatcttaat cacattgaca ctttttgagg 180  
 tctttttcct aaaacgacaa agaagattga atcaccttgt atactggctc aaaaccacct 240  
 tctccaatct tgttgtttat tgagaagtta tcagtggcaa tgactattgt tgaaagggtca 300  
 agtaagggga gatcgatatt ttcttcactt cctccctat tttgatcacg tacaatatct 360  
 gaatactctg ataaaatgga acaatggctt caatttagtt aaaggcaciaa tgtatatgat 420  
 agtttagtca agtcaataac tttgcagcat tacatctttg 460

<210> 29950  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 29950

agctaggccc gtcccgctgc atctctctct ctcttgccag ccaagacctg gacatcatct 60  
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 ggaagacagt tggcggatcg accttatggc cttaacaaag gcgatgggtg cgtagcaac 180  
 cttatggcac tccactttcc agacagtgcg agcagtagcc ctgcatttgg cgacctatac 240  
 ctgcaaggac gtcaccttga gcaaagccta atgggtgccac tcgccattct cctctataat 300  
 cgccacactt tgctggagaa cactttggca aaagatggag cgttcgatac cccagccaac 360

366

<400> 29951

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<223>      unsure at all n locations
<400>      29952
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<210>	29953
<211>	457
<212>	DNA
<213>	Glycine max

<400> 29953

tgtattgatt ccatgaagtt gaacaattga ctccaagcaa tatatatgaa cttacttatg 60

gacaaacaga aatgcagcac aaagtaacaa ggtgcctgta acaagaatcc atccaataac 120

caccaagctg cagccacgat aaaaaaaaaa aaaaaaaaca gaacatcttt tactgataga 180

aacttaacgg gagacaaatc tatcagagtg aaggaaatga aatgaattca acttacgagt 240

atacaggacc cggcaaagca agtaaagaaa atactgcaaa aattaaatca agttcatatg 300

atttggttaa cattgagtat agagtaagaa aaagaaaaaa gacaaaacca aaatcaaaca 360

tacacaatcc gagaaatgca acaaagatca taacagcagc aacagtaaca agagccagtc 420

tcctgcagat gatcacaaca agcaatgtta attaate 457

<210> 29954

<211> 361

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29954

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gtttgccttc gcangaatgg ccccgaggaa gcttgccctca nagagggtcca ggaaggacaa 120

ggcggtcgaa cgaactagtt ccgctccgga gtatgacagt caccgcttta tgagcgtgt 180

acaccaacag cgcttcgagg ccatcaaggg atggtcgttt ctccgggagc gacgcgtcca 240

gctcanggac gacgagtata ctgatttcca ggaggaaata gggcgccggc ggtggacatc 300

actggttact cccatggcca agttcgatcc agaaatagtc cttgactttt atgccaatgc 360

t 361

<210> 29955

<211> 464

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29955

actcaagctt actaaaacag gagcatatct cttctcagat cctactctat atatatcagt 60

agttggagct ctccaatact ccaccataac cagaactgag ctaagttttg ctgtaaacaa 120



agtctgtcaa ttcattggtca tactcttgaa actcactgag cagtagtgaa aagaattctc 180  
 aagtatctaa aaggctcttt acaccatggc ctactttctca nagctgctac tccaggaatt 240  
 accattccta ttaaggccct atgtgatgca gattgngctt ctaaccctga tgatcacaga 300  
 tctacttttag gagctgctat ttattttggt cctaacctta tatcttggtg gtctaagaaa 360  
 caacagattg ttgcaaggtc aagtactgaa gctgagtatc gaaacctatc tcaagctaca 420  
 actgaagtag tgtggatnta ttagaattct aacagtatca taga 464

<210> 29956  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29956

tctagtattc aaagaccttc ttctgtaagt gtttgttgtc tctatgcgaa tagaattctt 60  
 cacttgagct ttgtcgcaag ctaccctttt gcgggagagc gaggcaaggc tcacaggtgc 120  
 gtcttccata ggaagaaaat gcgcggagtc tccaccaacg tttattgaaa ggaaaacgtt 180  
 agaaaaatca aaggaaaccg gtcatagaaga atattccaga ttcgggagtt atctttacgt 240  
 ttgaggaagg tattagcacc tctcacgttt gtccccaag gacaacagcc ttagattaga 300  
 attgtgtgaa attatgtatc taaactntta tttctttttt attttttgag gtcgacaaaa 360  
 gcggtgctct tgctcctacg taccctccat cgaagaggaa atcagaccta cgtagttctt 420  
 tcanaaggga caaatcaatn gattct 446

<210> 29957  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29957

tttgcttact ctttntctct tgcaaccac tccaatttca agaaaccccc ttctctgcca 60  
 ctctacaga tntctttctt tatattntaa tcgttttttt ttctttttct gctgggtttc 120  
 tttttccctc cactttcata tcttccacat atattgtcca ttttctgggt tctctctctt 180  
 ctttcacca ctttcagaaa agattctcac tgtcaacttt tcttggtttt ttcttttaatt 240

atccagatgc tgaccagcag cagctacttg tatgttttgt taggtactct ttattatcaa 300  
 ttatgaattg gagtattttt ctattttgta actcttagta tatattaagt gagtggtaaa 360  
 taatattaga ataccagtt gtccaatata tgata 395

<210> 29958  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29958

ggcaagaact ggctcaacaa aggctaatta tgagtgtaga gcaattcatt gagaagggtgg 60  
 tctggcttgg agcccgacct tcttttgtgg gggataatga aagttttaca acccaggcac 120  
 ctcaatagca tgagctagag ccagaaaatg atcactcacc tgaagccacc atccctggag 180  
 ctgttgattt ttcgaaaaga agattagaga caagatccaa tgaggctgct catcctgggc 240  
 cagtgcctgt atcagctgat gcaccatttc caggggtgga tccatcttca cctcagcacg 300  
 cagcagactc ttccactcct gtcttagaga tacctgaggg ccagaccata ccagttctga 360  
 cnttggacac ttctcctnca gctactccag tattgcactc gacagatgaa gaggatgttc 420  
 anacacagga tacccaagac cagtcaca 448

<210> 29959  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29959

ttagcttcca tcactntnta aagctgtccc cccacatggt cacttgatgg aatgngtcat 60  
 atatacccat ccttttcgtg aggactagtt gagttgatga agagttcata tactataaat 120  
 catgcaaaaa gaaaattcac atctcaaatt ggagattcaa tgcaatgtag acaaggtaaa 180  
 atgggaaaaat ntagacttgg ttctctataa aactggcaat tgatttgaaa actggaatat 240  
 gggtttgctg gaaattgaat gaaacctcaa catcagaaac agcaagattg aacttttcac 300  
 atnggttatg ttctggtatc tctaggattg gccaaaggaa ataactgttt tctaaacaat 360  
 actattaana aacaaaaataa catatgtttg atgccactta taag 404

<210> 29960  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29960

tctgaccaag ataaanaaaa gacacactaa ctaataaaaa ttaaataacc acgtttaaga 60  
 gtgttttttt ccccccttaa atgcaatatc taaagtagca atgtttgtca tattcataga 120  
 catagttgag agtttactcc ttaggtaatc ttatacttta taatcattta atttttttta 180  
 aatttttttt atcaatttta aattgaattt attttatata tgaagtatca aacatttttt 240  
 ttttattttt ttataaaatt tgtagacatt atctattcta taaaaacttc taatataatg 300  
 attggatcat tgaaatttaa tatcaacaga attatcaaatt tgactaactt taccaagtta 360  
 ctcttgaagt cgcttgtctc aatcttttta gatactaatt tctttaatct cttttacaca 420  
 tgcattgtata ttttcttaga tattga 446

<210> 29961  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 29961

tctagcanga ngttttaata ctgagangac atgaaactat atgcgngaca tttcttgaag 60  
 attgtgtttg acttaccacac tatgcatcca attttaaatt gtttgtaaatt agaacaaata 120  
 acgaaaaaga tgggtggaact cacaaaccaa gaggagggtg aattgatttc taaatcaaatt 180  
 caaactttta aaaaatagag ctataaaaaa cttcttttcc aatgatcgta tcacaaactt 240  
 ttgataaacc aatatttaatt caatcatcct ttacacaaag tcttttgcta taattgtttc 300  
 ttataatata ttctctttta ccttcagtaa attgatcaag actagaataa gaaagataga 360  
 tatgatcaag agaagatgtg caccaatttc tatattgggt cactctcta 409

<210> 29962  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 29962

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tctagtatgc tcataatgta acattatggt ttctataatg attgattaag tgttttaatt 120  
aaattgtaag agtaattaaa tttaatttgc gtgtcgtaat ttgtggtggt tatagttaat 180  
gtttttgtta tgcttatgct tatgcttaaa ccttatttta ngtgtgaata atacgtttta 240  
gagtgggttg accgaggtaa gtgggccttg agtgataagg atgagatgag tgagtttaga 300  
aagtgaaaat gtgagattag aaggaatagg aagagtcaga gactcaacat atagggattt 360  
aaatntgaac cagatcacia acactctcat tctctccaa aacaactcac aattagagaa 420  
tgtgagtcac tgaaatccta gtacaaa 447

<210> 29963  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29963

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tggatagggt ctgagtgagg caatatacaa cctcttcaag gcggtccatg gtggtgtggt 120  
ggccgttgtg agcgagcatg attagaggat ggtgtagggg ttccagtaag ggaagaggca 180  
agtaatggca gccatggatg ataggtcaaa acaatttgtt acgaacatta ctacactatg 240  
ctatgctaac tacactatta ggtatttcat aattcttctc tgccttattt cattactgtg 300  
gtgtatttat aatgatcata tagagatata atttggcact tttggcccat aacaaanaag 360  
tataacagaa atgcaaaaaca acatagtaat gggatcatatc tagtttggtg taac 414

<210> 29964  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29964

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taatgttact tccttcacta aagcgggtgat ccatctccac acatatttta tcaatagcaa 120  
 cataaaaaat ctctggacgg tcatgatgaa gattagtgat agtcctccct tctgctcttg 180  
 aacgaccccg aactgggtata tcgtcatcca tatttggtac cagaatactt ttagcaacac 240  
 aaaatccttg gacatcggca aaaaaattat tccagccact ctctctcatt gtgccaacc 300  
 gagctttgca acatcaacta attccatggc attcacaata ttaagatctt ntcttcgcaa 360  
 tatactgaa agctcgtttg tttgctatga cctgtatcac gcacaa 406

<210> 29965  
 <211> 302  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 29965

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 tagcgatgaa gaacatgaca tcaactgtgag atatatatgt tgagataaaa naaataacgc 180  
 attatgatgc atacgagatc cgatagatag gcacatcatc atggatgtta gtttgcggtg 240  
 atgactcgta tacgtcttct atgtttagtt gacgaagtan gaagactcac cccttacttt 300  
 tt 302

<210> 29966  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
  
 <400> 29966

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 atggcgctc ctctcactc ttctccttta tcttcgctg caactccatg gctaaaaatc 120  
 accattgaag gaccttattg aagctcaaag atccagcctc catagaatct tatcaagcaa 180  
 gcttccatca agcactaatc agagcacaag agcttcaagt aggtgctcct taaacctcca 240  
 ttaattttca gctttacctt ctcgctcatt gttgtttttt tacttttctc catgtatctc 300  
 ctcacatgtc ttgtgctgaa tattttttatc atgaatcttt agaatttcca ccaattaaac 360  
 ttgctataaa agctagattt gattttctat ggttcaaaat tcttggtctt gttcttgaac 420

catgaattgt gttgagttt

439

<210> 29967  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29967

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cttaaaaaat gatatgtgac tacttcatac ctgtatatga gttttgctaa ttgtgtcgag 120  
ttgttccttt atccagacag ttgttgcttg tagcttttgc aaaagcaatg atatttatga 180  
tcaagacatg cacattttct cattacgatt gtaagtgatt tttattcttt gttttcatgt 240  
ttaattttgt gcaagtaaaa taagtatctt ctctgtcatt cattcttatt ataactcctt 300  
ccatgtgatt gatgtaatat tgatgacata caccactaaa acatatgata cacttgagaa 360  
gagacccgga naagattcag taacattta 389

<210> 29968  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29968

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gaatatcggt aatggaatac aatcttactt aaaatggata aaattattat agaagatatt 120  
tataaattaa tagggatttg ggattcatga ctaactatca gtattattta ggacgtattt 180  
cactctatgg agtgaaaaaa attatgtaaa atgagaagta attatggatg tgtctattat 240  
taatataaat aaaatatacct ataaacagaa tccaattaaa ttaaaaaaaaa taaaataaat 300  
gcacctttct tttcactctg tacgcgcttc tcacctttta cagcaaaata gaaaatctaa 360  
aattaattta gggtgaaagt agtagttcta atttaaattc agtgatatct aaagtgataa 420  
agttaatctg tcgcttacct 440

<210> 29969  
<211> 359

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29969

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aatacctgta tatctattta atgatgtttt atgtgttgct tgtgctatca gtacttcatt 120  
tcagtgtgct ttttccttga tcatgtagat gcatgctttg ttaggataat tcaacagtgg 180  
aaactggctc gattcttaga acttgatagg acagggctag tttattgtat tatcacgagg 240  
aatcgngta cggtaaccta gttgtttgta tgtttgtctt aatgcagttc tggtcgagtt 300  
tagtccaaca agaggaatct gangatgatg cttggtcggg attaagctag actatcatg 359

<210> 29970  
<211> 460  
<212> DNA  
<213> Glycine max

<400> 29970

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aatactcttt ttatctattt aatgatgttt tgtgcttca ctgtgctatc agaacttcat 120  
tctaccatgc attgccttga tcatgtagat gcatgtgtat ttaggatcat tcaacagtgg 180  
aaactggctc gattcttaca acttgatatg atacggctag tttagcatat attcacgagg 240  
aatcgnggta cggtaaccta tttgttgatg gtttgactta atgcggccct ggctaagttt 300  
aatccaacaa gatgaatctg tggatgatgc ttgggcagga ttatgctaga ctatcatgat 360  
gaatcggggc tgagcatttc atgagatacc atataacgca tgagcattgt tgagtagaga 420  
atatgctttt agcatcagac acctattatg aagaccaacg 460

<210> 29971  
<211> 397  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 29971

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gacaagattt tccatagacc aactggaaag acataagtcc tgtgggggct ttataggcta 180  
 ttctgtatgg ccacaaatct taatctagtt tcagggaacca atccttcctt gattgagcaa 240  
 ctatttcac tagaattatc ttaacttccc tattagaaac ttcaactttc ccattggtct 300  
 gaggggtgga aggtgaggct accttgtgtt tgacactgta gtgtaggagg acttttgata 360  
 gccgtgtatt actaaaatga gaatctccgt cacttan 397

<210> 29972  
 <211> 230  
 <212> DNA  
 <213> Glycine max

<400> 29972  
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 attccaatca ttcatgca atagatgca tgcacctgac ctcaactctc atgtgcaatg 120  
 tggatcatc ccaaggaaac agcctaagtg tgtccacacg acactctcac ttaggaaaac 180  
 tatgtagtaa atgtcgaggt caccctgtcg ggcacaggca actcccccc 230

<210> 29973  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<400> 29973  
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<223> unsure at all n locations



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